# UNITED STATES DISTRICT COURT SOUTHERN DISTRICT OF NEW YORK

IN RE: METHYL TERTIARY BUTYL

ETHER ("MTBE") PRODUCTS

LIABILITY LITIGATION

Master File No. 1:00-1898

MDL 1358 (SAS)

M 21-88

This document relates to:

City of Fresno v. Chevron U.S.A., Inc.,

et al.,

Case No. 1:04-cv-04973

DECLARATION OF MICHAEL AXLINE IN SUPPORT OF PLAINTIFF CITY OF FRESNO'S OPPOSITION TO CERTAIN DEFENDANTS' MOTION FOR PARTIAL SUMMARY JUDGMENT ON PLAINTIFF'S NUISANCE

# I, Michael Axline, declare:

- 1. I am one of the attorneys in this case for plaintiff City of Fresno. I have been personally involved in much of the discovery and pretrial proceedings in this action. This Declaration is based on my personal knowledge and, if called as a witness, I could testify competently thereto.
- 2. Attached hereto as Exhibit 1 is a true and correct copy of relevant portions of City of Fresno's First Amended Complaint filed on November 18, 2004, a true and correct copy of an October 17, 2005, Letter from W. Hughes to R. Greenwald, a true and correct copy of an October 17, 2005, Letter from P. Condron to R. Greenwald, and a true and correct copy of a September 15, 2005, Letter from T. Renfroe to R. Greenwald.
- 3. Attached hereto as Exhibit 2 is a true and correct copy of excerpts from the deposition of Garabed Bedirian taken on April 4, 2011, in this action, and a true and correct copy of excerpts from the deposition of James Clements, taken on March 29, 2011, in this action.
- 4. Attached hereto as Exhibit 3 is a true and correct copy of relevant portions of the Chevron Dealer Supply Contract between Chevron U.S.A., Inc. and G.R. Clements dated August 15, 1985, and a true and correct copy of December 30, 1986, Memorandum re: MTBE.
- 5. Attached hereto as Exhibit 4 is a true and correct copy of an Aug. 12, 1991,
  Memorandum, TIP Letter #237, MTBE Effects [CHEV 09564-09567], the Chevron Material
  Safety Data Sheet dated February 1993, and the Shell Defendants' Responses to City of Fresno's
  First Set of Interrogatories to Defendants, Exhibit B, filed November 11, 2008.
- 6. Attached hereto as Exhibit 5 is a true and correct copy of excerpts from the deposition of Jatinder Dhillon taken on August 11, 2011, in this action, and a true and correct

copy of excerpts from the deposition of Joel Mascitelli taken on July 26, 2000, in this action.

- 7. Attached hereto as Exhibit 6 is a true and correct copy of relevant portions of the Expert Report of Marcel Moreau dated Nov. 2, 2011, a true and correct copy of relevant portions of the Expert Rebuttal Report of Marcel Moreau dated March 5, 2012, a true and correct copy of a March 12, 1999, Email from G. Marshall to C. Stanley, and a true and correct copy of January 20, 1999 email from Hugh Dickey to multiple recipients attaching "Solving Problems from MTBE Contamination It's Not Just Regulating Underground Tanks."
- 8. Attached hereto as Exhibit 7 is a true and correct copy of excerpts from the deposition of Imtiaz Ahmad, taken on February 16, 2011, in this action, a true and correct copy of relevant portions of Valero Defendants' Responses to First Set of Interrogatories dated November 5, 2008, a true and correct copy of relevant portions of Valero Corporate Representative Deposition, Early Knowledge and Taste & Odor Issues, and a true and correct copy of Defendant Ultramar, Inc.'s Disclosure Pursuant to June 9, 2005 Directive as Amended by the Court on August 12, 2005 (Oct. 17, 2005).
- 9. Attached hereto as Exhibit 8 is a true and correct copy of the Declaration of Alexander Blagojevic dated May 4, 2000, and a true and correct copy of excerpts from the May 6, 1999 deposition of Curt Stanley, taken in this action.
- 10. Attached hereto as Exhibit 9 is a true and correct copy of a March 31, 1981, Internal Arco Memo from R.N. Roth to MTBE File, a true and correct copy of excerpts from the deposition of Ben Thomas taken on November 15, 2000, in this case, a true and correct copy of a June 14, 1984, Arco Chemical Company Internal Correspondence from B. Hoover to S. Ridlon, and a true and correct copy of a March 26, 1991, Memorandum, Chemical Entry Review for

for MTBE.

- 11. Attached hereto as Exhibit 10 is a true and correct copy of a May 13, 1998 Email from C. Stanley to C. Parkinson, a true and correct copy of a June 11, 1986, Memorandum, to O.T. Buffalow, San Francisco, CA, from D.W. Callahan, re Marketing Environmental Concerning Regarding the use of MTBE in MOGAS, a true and correct copy of a July 14, 1993, Email from C. Stanley to D. McGill, a true and correct copy of a May 14, 1998, Email from C. Stanley to K. Bell, et al., a true and correct copy of a November 3, 1998, Email from C. Stanley to J. Pedley, a true and correct copy of relevant portions of MTBE Release Source Identification at Marketing Sites dated March 30, 1999, a true and correct copy of a February 2, 1999, Email from C. Stanley to F. Benton, and a true and correct copy of a May 29, 1998, Email from G. Marshall to C. Stanley..
- 12. Attached hereto as Exhibit 11 is a true and correct copy of a June 18, 1984, Memo from S. Cragg, API, to MTBE Task Force, and a true and correct copy of relevant portions from Hydrocarbons and Organic Chemicals in Groundwater Water Prevention, Detection and Restoration, dated November 12-14, 1986.
- 13. Attached hereto as Exhibit 12 is a true and correct copy of a June 25, 1996, Letter from P. Pugnale, Shell Oil Company, to R. Ghirelli, California Regional Water Quality Control Board and a true and correct copy of a September 29, 1997, letter from C Flanikan, Ultramar, to California Environmental Protection Agency, with enclosure.
- 14. Attached hereto as Exhibit 13 is a true and correct copy of a June 30, 1994 Ultramar Material Safety Data Sheet.
  - 15. Attached hereto as Exhibit 14 is a true and correct copy of Chevron U.S.A. Inc.'s

Supply Declaration dated April 18, 2011, and a true and correct copy of relevant portions of Dealer Management Development Program, Health, Safety & Environment Participation Guide

16. Attached hereto as Exhibit 15 is a true and correct copy of April 27, 1995 MTBE in Groundwater issues and a true and correct copy of Shell MSDS dated October 7, 1994.

I declare under penalty of perjury that the foregoing is true and correct.

Executed this 15 th day of May, 2013, at Sacramento, California.

MICHAEL AXLINE

# EXHIBIT 1



in the Methyl Tertiary Butyl Ether ("MyBE Products Liability Litigation

This Document Relates To:

**建设的公司** CTTY OF FRESNO

Plaintiff,

Plaint

Master File C.A. No. 1:00-Civ. DO 1898

MDI/No 1358 (SAS) S.D.OFT

Case No. 04 CY-04973 (SAS)

Transferred from: United States District Court for the Northern District of California Case No. C 03-5378 JSW (Honorable Jeffrey S. White)

Removéd from: Superior Court of California. County of San Francisco, Case No. CGG-03-425649

FIRST AMENDED COMPLAINT

JURY TRIAL DEMANDED

`

- 13. Defendant Union Oil Company of California ("Union Oil") is a California corporation
  with its principle place of business in El Segundo, California.
  - 14. Defendant Kern Oil & Refining Company ("Kern Oil") is a California corporation with its principal place of business located in Long Beach, California.
- 15. Defendant Valero Refining Company-California ("Valero Refining") is a Delaware corporation with its principle place of business in San Antonio, Texas, and doing business in California.
- 16. Defendant Valero Marketing and Supply Company ("Valero Marketing") is a Delaware corporation with its principal place of business in San Antonio, Texas, and doing business in California. Valero Marketing and Supply Company is named in place of DOE 1.
- 17. Defendant Tesoro Petroleum Corporation ("Tesoro") is a Delaware corporation with its principal place of business in San Antonio, Texas, and doing business in California. Tesoro is named in place of DOE 2.
- 18. Defendant Tesoro Refining and Marketing Company, Inc. ("Tesoro Refining"), a wholly owned subsidiary of Tesoro, is a Delaware corporation with its principal place of business in San Antonio, Texas, doing business in California. Tesoro Refining is named in place of DOE 3.
- 19. Defendant Texaco Refining and Marketing Inc. ("TRMI") is a Delaware corporation with its principal place of business in New York.
- 20. Defendant Ultramar, Inc. ("Ultramar") is a Nevada corporation with its principal place of business in San Antonio, Texas.
- 21. Defendant Exxon Mobil Corporation ("ExxonMobil") is a New Jersey corporation with its principal place of business located in Texas. Plaintiff is informed that Exxon Mobil was formed on or about November 30, 1999 as a result of a merger of Mobil Corporation and Exxon Corporation and is a successor in interest to Exxon Corporation and Mobil Corporation.
- 22. Defendant ConocoPhillips Corporation ("Conoco") is a Delaware Corporation doing business in California and is a successor in interest to Tosco Corporation.
- 23. Defendant ChevronTexaco Corporation ("ChevronTexaco") is a Delaware corporation with its headquarters in San Ramon California. Plaintiff is informed and believes that

ChevronTexaco Corporation is a successor in interest to certain Chevron-related and Texaco-related entities.

24. Defendant Equilon Enterprises LLC ("Equilon") is a Delaware Limited Liability Company. Plaintiff is informed and believes that Equilon Enterprises LLC is a successor in interest to certain Shell-related and Texaco-related entities.

25. Defendants Chevron USA, Shell, Exxon, Tosco, Unocal, Union Oil, Kern Oil, Valero Refining, Valero Marketing, Tesoro, Tesoro Refining, TRMI, Ultramar, ExxonMobil, Conoco, ChevronTexaco, Equilon and DOES 4 through 100, will be collectively referred to hereafter as the "Refiner Defendants." The Refiner Defendants, and each of them, owned and/or operated gasoline refineries that manufactured and supplied gasoline containing MTBE and/or TBA to locations in the vicinity of Fresno's water system, such that releases of such products to the subsurface contaminated and polluted the water system. Among other things, these defendants (1) designed, formulated, refined, manufactured, promoted, marketed, distributed, transported, packaged, exchanged and/or sold gasoline containing MTBE and/or TBA, which is contaminating, polluting and threatening Fresno's public water supplies; (2) owned, operated, and/or controlled gasoline delivery systems including, but not limited to, gasoline stations, gasoline storage, transfer, delivery, and dispensing systems (collectively herein "gasoline delivery systems") in areas affecting Fresno's water system; (3) were legally responsible for and committed each of the multiple tortious and ongoing wrongful acts alleged in this complaint; (4) participated in one or more enterprises to promote MTBE and/or TBA and/or gasoline containing MTBE and/or TBA; (5) negligently designed, constructed, installed, fabricated, owned, operated, controlled, inspected and/or repaired gasoline delivery systems from which MTBE and/or TBA is contaminating, polluting, and threatening the water system; (6) negligently and/or intentionally failed and refused to take appropriate remediation action to abate MTBE and/or TBA plumes when MTBE and/or TBA escaped from the gasoline delivery systems; and (7) in doing the tortious and wrongful acts alleged in this complaint, acted in the capacity of aider, abettor, joint-venturer, partner, agent, principal, successor-in-interest, surviving corporation, fraudulent transferee, fraudulent transferor, controller, alter-ego, co-conspirator, licensee, licensor, patent holder and/or indemnitor of each of the remaining DOE and named defendants.





WALLACE KING DOMIKE & BRANSON, PLLC 1050 THOMAS JEFFERSON STREET, N.W. WASHINGTON, DC 20007

> Phone 202.204.1000 Fax 202.204.1001

William F. Hughes Direct Dial 202.204.3727 bhughes@wallaceking.com

October 17, 2005

# Via LexisNexis File & Serve

Robin L. Greenwald Weitz & Luxenburg, P.C. 180 Maiden Lane, 17<sup>th</sup> Floor New York, New York 10038-4925

Re: In re: MDL 1358 Products Liability Litigation

Dear Ms. Greenwald:

On behalf of the Chevron Defendants, this letter provides information responsive to Judge Scheindlin's August 12, 2005 directive regarding disclosure of involvement in national and regional trade associations on issues related to oxygenates and/or underground storage tanks ("USTs"). Based upon their investigation thus far, the Chevron Defendants provide the following information:

# American Petroleum Institute

Defendant Chevron Corporation<sup>1</sup> has been a member of the American Petroleum Institute ("API") since a date prior to the relevant time. On various occasions during the relevant time period, certain employees of Chevron Corporation and/or affiliated entities, including defendant Chevron U.S.A. Inc., participated in various API committees that may have addressed certain matters related to oxygenates and/or USTs. These committees include: (1) Ad Hoc MTBE Coordination Group; (2) Soil/Groundwater Technical Task Force; (3) MTBE Research Group; (4) RFG Certification Work Group; (5) Ad Hoc RFG Certification Protocol Subgroup; (6) Section 211(b) Research Group; (7) Ad Hoc Oxygenates Group; (8) Clean Air Act Ad Hoc Committee on PPC; (9) Toxicology Committee; (10) Petroleum Industry Workgroup on Methanol Research; (11)

<sup>&</sup>lt;sup>1</sup> Chevron Corporation has operated under several names during the relevant time period: (1) Standard Oil Company of California (from a date prior to 1979 until July 1984), (2) Chevron Corporation (July 1984-Oct. 2001 and May 2005-present), and (3) ChevronTexaco Corporation (Oct. 2001-May 2005). These entities are referred to collectively herein as Chevron Corporation.



Robin L. Greenwald October 17, 2005 Page 2

Fuels Committee; (12) Fuels Task Force; (13) Water Subcommittee Water Quality and Water Protection Task Force; and/or (14) Vehicle Emissions Task Force.<sup>2</sup>

# Western States Petroleum Association

Defendant Chevron Corporation and/or affiliated entities have belonged to the Western States Petroleum Association ("WSPA") since a date prior to the relevant time period.<sup>3</sup> On various occasions during the relevant time period, employees of Chevron Corporation and/or affiliated entities participated in the following WSPA committees that may have addressed certain matters related to oxygenates and/or USTs: (1) MTBE Task Force; (2) Ad Hoc MTBE Task Force; (3) Ad Hoc WSPA MTBE Treatability Task Force; (4) RFG Advocacy Task Force; (5) Fuels Subcommittee RFG Compatibility Issues Technical Task Force; (6) Ad Hoc RFG Group; (7) Remediation Task Force; (8) Toxic Air Contaminant Task Force; and/or (9) Ad Hoc Group on MTBE.

# Other Industry Organizations

On various occasions during the relevant time period, Chevron Corporation and/or affiliated entities (including defendant Chevron U.S.A. Inc.) were members of and/or participated in the following industry associations that may have addressed certain matters involving oxygenates and/or USTs: (1) Independent Petroleum Association of America; (2) Interstate Technology Resource Council; (3) National Petrochemical Refiners Association; (4) National Petroleum Council; (5) Petroleum Environmental Research Forum; (6) Reformulated Gasoline Survey Association; (7) Resource Environmental, LLC; (8) Society of Automotive Engineers; (9) Society of Independent Gasoline Marketing America; (10) Western Petroleum Marketers Association; and/or (11) certain divisions of U.S. Oil & Gas.

The Chevron Defendants provide this information to the best of their knowledge. The Chevron Defendants are continuing their investigation and reserve the right to amend and/or supplement this response should they discover additional information.

<sup>&</sup>lt;sup>2</sup> Prior to 1984, defendant Chevron U.S.A. Inc. was known as Gulf Oil Corporation. From a date prior to the relevant time period until approximately 1984, Gulf Oil Corporation was a member of API. Defendant Texaco Inc. was a member of API from a date prior to the relevant time period until 2001.

<sup>&</sup>lt;sup>3</sup> Prior to 1988, WSPA was known as the Western Oil and Gas Association.

Wallace King Domike Branson

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> Phone 202.204.1000 Fax 202.204.1001

PETER C. CONDRON Direct Dial 202.204.3707 pcondron@wallaceking.com

October 17, 2005

# VIA LEXIS/NEXIS FILE AND SERVE

Robin L. Greenwald, Esq. Weitz & Luxenburg, P.C. 180 Maiden Lane, 17<sup>th</sup> Floor New York, New York 10038-4925

Re: In re: MDL 1358 Products Liability Litigation

Dear Ms. Greenwald:

On behalf of the Shell Defendants, this letter provides information responsive to Judge Scheindlin's August 12, 2005 directive regarding disclosure of participation in national and regional petroleum industry trade associations that focus on issues related to oxygenates and/or underground storage tanks ("USTs"). Based upon their investigation thus far, the Shell Defendants submit the following membership information:

# American Petroleum Institute (API)

Shell Oil Company has been a member of API from 1950 though the present. During this period, representatives of Shell Oil Company and/or its various affiliates and subsidiaries may have participated in the following subcommittees and task forces: the 211(b) Research Group, the Ad Hoc Committee on MTBE, the Ad Hoc MTBE Coordination Group, the Fuels Committee, the Fuels Group Program, the Fuels Task Force, and the Soil/Groundwater Technical Task Force.

# Louisiana Mid-Continent Oil & Gas Association (LMOGA)

Shell Oil Company and members of its various affiliates and subsidiaries, including Equiva Enterprises, Motiva Enterprises and Shell Oil Products US f/k/a Equilon Enterprises, have been members of LMOGA since at least 1980. During this period, representatives of Shell Oil Company and/or its various affiliates and subsidiaries may have participated in the Subcommittee on Air that was originally formed to consider the Clean Air Act Amendments of 1990.

Wallace King Domike Branson Robin L. Greenwald October 17, 2005 Page 2

# Mid-Continent Oil and Gas Association

Shell Oil Company and/or its various affiliates and subsidiaries are current members of the Mid-Continent Oil and Gas Association.

# National Petrochemical and Refiners Association (NPRA)

Shell Oil Company has been a member of NPRA from 1999 through the present.

# National Petroleum Council (NPC)

Shell Oil Company and/or its various affiliates and subsidiaries have been members of NPC since 1946.

# Petroleum Environmental Research Forum (PERF)

Shell Oil Company and/or its various affiliates and subsidiaries are current members of PERF.

# Petroleum Marketers Association of America (PMAA)

Shell Oil Company has never been a member of PMAA. Shell Oil Company does support PMAA, though, through a corporate sponsorship.

# Reformulated Gasoline Survey Association

Shell Oil Company and/or its various affiliates and subsidiaries are current members of the Reformulated Gasoline Survey Association.

# Society of Independent Gasoline Marketers of America (SIGMA)

Shell Oil Company and/or its various affiliates and subsidiaries have been members of SIGMA since 1992 through the present.

# Western Petroleum Marketers Association (WPMA)

Shell Oil Company and/or its various affiliates and subsidiaries, excluding Motiva Enterprises and Equiva Enterprises, are current members of WPMA.

# Western States Petroleum Association (WSPA)

Shell Oil Company has been a member of WSPA since a date prior to the relevant time period. During this time, representatives of Shell Oil Company and/or its various affiliates and subsidiaries may have participated in the MTBE Task Force subcommittee.





Tracie J. Renfroe Partner

711 Louisiana Street, Suite 2300 Houston, Texas 77002-2770 Office 713.221.1404 800.887.1993 Fax 713.221.2123 tracie.renfroe@bracewellgiuliani.com

September 15, 2005

Via LexisNexis File & Serve

Robin L. Greenwald Weitz & Luxenberg 180 Maiden Lane, 17th Floor New York, New York 10038

> MDL 1358 - Valero and Ultramar Defendants' Trade Organization Information Re:

Dear Ms. Greenwald:

In accordance with the Court's directive at the August 12, 2005 Status Conference and in your capacity as Plaintiffs' liaison counsel, this letter provides information on Valero Energy Corporation, Valero Marketing and Supply Company, Valero Refining and Marketing Company, and Valero Refining Company-California's1 ("Valero Defendants") and Ultramar Inc., Ultramar Energy, Inc., Ultramar Limited, TPI Petroleum, Inc., and Colorado Refining Company's ("Ultramar Defendants") membership in the American Petroleum Institute ("API"), Oxygenated Fuels Association ("OFA"), and OFA MTBE Committee.

# API

Valero Defendants have never been members of API. API records indicate that Hill Petroleum Company was a member of API from 1980-81, prior to this entity's affiliation with Valero Defendants beginning in 1997. Additionally, API records indicate that Ultramar Refining was a member of API from 1989-90; Ultramar Inc. was a member of API in 1991; and Ultramar Corporation was a member of API from 1992-93.

<sup>&</sup>lt;sup>1</sup> Plaintiffs' complaints filed in Connecticut, Iowa, and New York also name Valero Refining Company, a non-existent entity.



Robin L. Greenwald September 15, 2005 Page 2

# <u>OFA</u>

Valero Energy Corporation was a member of OFA from 1993 until the organization's dissolution in 2004. Phibro Energy was apparently a member of OFA from 1994-95, prior to this entity's affiliation with the Valero Defendants in 1997. Ultramar Defendants have never been members of OFA.

# MTBE Committee

Valero Defendants and Ultramar Defendants have never been members of the MTBE Committee.

Valero Defendants and Ultramar Defendants reserve the right to amend or supplement this information in the future if necessary.

Very truly yours,

Bracewell & Giuliani LLP

racie J. Renfroe

TJR/tds

cc:

All counsel via LexisNexis File & Serve

# EXHIBIT 2

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Page 1
                   UNITED STATES DISTRICT COURT
 1
                   SOUTHERN DISTRICT OF NEW YORK
 3
     In re: Methyl Tertiary Butyl ) Master File No.
 4
     Ether ("MTBE") Products
Liability Litigation
                                        1:00-1898
                                    )
 5
                                        MDL 1358 (SAS)
 6
 7
     This Document Relates To:
 8
     CITY OF FRESNO,
 9
10
             Plaintiff,
11
                                             CASE NO.
          vs.
                                        04 Civ. 4973 (SAS)
12
     CHEVRON U.S.A., INC., et al.,
13
            Defendants.
14
15
16
17
           VIDEOTAPED DEPOSITION OF GARABED BEDIRIAN
18
19
               Monday, April 4, 2011, at 9:41 a.m.
20
21
                  2800 North Green Valley Parkway
22
                         Henderson, Nevada
23
24
               REPORTED BY: PEGGY S. ELIAS, RPR
25
          Nevada CCR No. 274 - California CSR No. 8671
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Q. Thank you.
                                                                     two circled. It says very minor weeping was seen on
 2
          (Exhibit No. 12 was marked for
                                                                 2
                                                                     dispensers.
     identification.)
                                                                 3
                                                                           Do you recall ever being alerted to weeping
     BY MR. STEEVES:
                                                                 4
                                                                     on your -- on your dispensers at the station?
 5
        Q. I'm handing you what's been marked as
                                                                 5
                                                                           THE INTERPRETER: Weeping is like hitting
     Exhibit 12 (handing). It's an Underground Storage Tank
                                                                 6
                                                                     something, weeping? What do you mean by "weeping"?
     Testing Permit Application, looks like for the County
                                                                 7
                                                                           MR. DAVIS: I'll object that the term
     of Fresno, Bates number FCDEH-FRESNO-005977.
 8
                                                                 8
                                                                     "weeping" is vague and ambiguous.
 9
          Have you seen this document before?
                                                                 9
                                                                           THE WITNESS: I don't understand what it
10
        A. Yeah, I remember. Those papers, they all
                                                                10
                                                                    means.
11
    look alike. I used to have all this paperwork, but
                                                                11
                                                                    BY MR. STEEVES:
    then after ten years passed, I threw them away.
                                                                12
                                                                        Q. Okay. That's fine.
13
        Q. It looks like -- excuse me. It looks like,
                                                                13
                                                                           Do you know what MTBE is?
14
    on this document, both the underground storage tank and
                                                                14
                                                                        A. No. If you explain, maybe I'll understand
15
    the piping was tested using the Petro Type II method.
                                                                15
                                                                    it.
16
          Does that comport your -- with your
                                                                16
                                                                        Q. Well, MTBE refers to methyl tertiary butyl
17
    recollection as to the method of testing that was used?
                                                                17
                                                                    ether. It's an additive some companies put in the
18
          THE INTERPRETER: What kind of method you
                                                                18
                                                                     gasoline to comply with Clean Act -- Clean Air Act
19
    said? What kind of method was used?
                                                                19
                                                                    requirements.
20
          MR. STEEVES: Petro Type II.
                                                                20
                                                                           So if I refer to "MTBE," will you understand
21
          THE WITNESS: What kind of -- I don't
                                                                21
                                                                    what I'm referring to?
22
    understand what kind of tube it is.
                                                                22
                                                                        A. Yeah. There was paper that I used to get for
23
    BY MR. STEEVES:
                                                                23
                                                                    air pollution, but I didn't know exactly what it was
24
       Q. Under the tank tester information, a company
                                                                24
    named -- listed Able Service Company.
                                                                25
                                                                        Q. Do you recall if you ever sold gasoline
                                                      Page 34
                                                                                                                     Page 36
 1
          Do you recall that company?
                                                                    containing MTBE at your station?
                                                                 1
 2
        A. Yeah. I used to call them.
                                                                 2

 I don't know.

 3
        Q. What did you use them for at the site?
                                                                 3
                                                                        Q. Do you recall who delivered your gasoline to
        A. I don't know why we used, but they came to do
                                                                 4
                                                                    the station at the time you owned it?
    the test. I don't understand the system they do it.
                                                                5
                                                                        A. From what -- first day till the last day, I
 6
        Q. Do you recall how often they came out to do
                                                                6
                                                                    always bought it from Jensen. No one else.
    testing?
 7
                                                                7
                                                                       Q. Do you recall if you bought a particular
 8
        A. My job was mechanic. I didn't understand
                                                                8
                                                                    brand of gasoline?
    from a gas station -- it was all new stuff for me.
                                                                9
                                                                        A. There were two kinds, the unleaded and the
                                                                10
                                                                    super unleaded.
10
    They used to come and do every year testing, and I used
                                                               11
11
    to pay them. They used to give me copies.
                                                                       Q. Do you recall if you purchased a particular
12
           They used to give me copies, and they used to
                                                                12
                                                                    brand from a particular company, oil company?
13
    send a copy to the government, and I didn't know the
                                                                13
                                                                        A. Jensen was Chevron, and I know that all my
14
    name of the companies, but I used to ask Jensen, and he
                                                               14
                                                                    signs were Chevron, and the trucks that came, they were
15
    used to tell me who to call and gave me the names. It
                                                                15
                                                                    all Chevron trucks.
                                                               16
16
    should have been a satisfied company licensed in order
                                                                       Q. The trucks that delivered gasoline to your
17
    to do this kind of job.
                                                               17
                                                                    station were Chevron trucks?
18
           (Exhibit No. 13 was marked for
                                                                18
                                                                           Yes, they were. I have all the Chevron signs
                                                               19_ on it.
19
    identification.)
20
    BY MR. STEEVES:
                                                               20
                                                                       Q. Do you recall how often gasoline was
       Q. I'll hand you what I've marked as Exhibit 13
                                                               21
                                                                    delivered to your station?
22
   (handing). It's an Official Inspection Report from
                                                               22
                                                                        A. Every time we felt that it was really low, we
23
    Fresno County Health Services Agency, Bates numbers
                                                               23
                                                                    used to call them, and the second day morning they were
    FCDEH-FRESNO-006007 through 008.
                                                                    there right away delivering.
24
                                                               24
25
                                                               25
          On the -- on the first page, there's a number
                                                                       Q. Did you generally make the calls for ordering
                                                      Page 35
                                                                                                                     Page 37
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gasoline?
                                                                      assumes facts not in evidence.
   2
          A. Yes.
                                                                  2
                                                                             THE WITNESS: They didn't teach me any
   3
          Q. Did you keep records of your orders?
                                                                  3
                                                                      classes or anything, but my experience wasn't on gas.
          A. I used to, but I don't have them. I threw
                                                                     It was a mechanic. You see the number 45 here? I've
   5
       them away, all.
                                                                  5
                                                                     been 45 years in the business (indicating).
          Q. Do you know where Jensen picked up the
   6
                                                                 6
                                                                     BY MR. STEEVES:
   7
      gasoline from to deliver it to your station?
                                                                 7
                                                                         Q. 45 years in the business, do you mean 45
   8
          A. I don't know. I don't know.
                                                                 8
                                                                     years as an auto mechanic?
   9
             A couple of times I had to go to their
                                                                 9
                                                                         A Yes, yes.
  10 office, and I saw the big -- for -- to share problems,
                                                                10
                                                                         Q. Did you operate any gas stations prior to
      accounting problems, and I saw it was a big place, and
                                                                11
                                                                     opening the Van Ness Auto Repair?
  12
      they had big, big tanks, but I don't know where they
                                                                12
                                                                         A. No. I had a garage, mechanic garage, body
  13
      bought it from.
                                                                13
                                                                     shop.
         Q. When you say "their office," you mean Jensen?
 14
                                                                14
                                                                            (In English) But no gas. First time I work
 15
         A. Yes. They have a big place, and they have
                                                                     in this place as a gas station and mechanic.
                                                                15
      big tanks, and every tank was hundred meter.
 16
                                                                16
                                                                            (Through interpreter) Well, the first time I
 17
         Q. You mentioned that you had Chevron signs at
                                                                17
                                                                     work in this place, gas station and mechanic, it's --
 18
      the station.
                                                                     it's a small place. This is the smallest business I
                                                                18
 19
            Were you a branded station?
                                                                19
                                                                     did in my lifetime. Before that -- because of my age,
 20

 A. Yes, when I bought it, there was signs of

                                                                20
                                                                    but before that I have big businesses.
 21
     Chevron everywhere, and I ordered couple of them, and
                                                                21
                                                                        Q. Did you ever work directly for an oil or gas
 22
      they brought couple of them more. But when I got out
                                                                22
                                                                    company?
 23
     of it, they came and picked it up, the signs.
                                                               23
                                                                        A. Yes, I have worked oil and gas companies, but
 24
         Q. What types of signs did you have at your
                                                               24
                                                                    in order to take care of their cars but not gas part
     station? Were they just logo signs? Did you have --
 25
                                                               25
                                                                    specific.
                                                      Page 38
                                                                                                                    Page 40
  1
     well, strike that.
                                                                1
                                                                       Q. So you worked as an auto mechanic?
 2
           Did you have a logo -- Chevron logo, logo
                                                                2
                                                                       A.
                                                                          Yes.
 3
     sign, at your station?
                                                                3
                                                                       Q. You testified that you ordered more signs
 4
         A. Yes. There was one on a pole. That was the
                                                                   from Chevron.
                                                                4
     old one that was there for a long time on the pole. It
                                                                5
                                                                          Did someone from Chevron bring those signs to
 6
     was beginning of the Chevron, and I bought with the
                                                                6
                                                                   you?
 7
     lights, the ones that -- I ordered with the lights.
                                                                7
                                                                       A. Yes, they came and hooked it up, and then at
 8
        Q. Did you have any Chevron logos on your
                                                                8
                                                                   the end they came and picked it up.
 9
     gasoline dispensers?
                                                               ፸
                                                                      Q. Did anybody from Chevron ever inspect your
10
        A. Yes.
                                                               10
                                                                   station?
11
            (Exhibit No. 14 was marked for
                                                               11
                                                                          MR. DAVIS: Objection, lacks foundation,
12 identification.)
                                                               12
                                                                   assumes facts not in evidence.
13
     BY MR. STEEVES:
                                                              13
                                                                         THE WITNESS: They used to come and check it.
14
        Q. I'll hand you what has been marked as
                                                              14
                                                                   out every time for cleanliness, and even they gave me a
15
     Exhibit 14 (handing). This is a copy of a business
                                                               15
                                                                   prize. Because my place was an older place, the prize
     card you brought in today.
16
                                                               16
                                                                   that I got because it was the cleanliest [sic] place,
17
           Is that the business card you used when you
                                                               17
                                                                   the cleanest place.
18
    owned the station?
                                                                   BY MR. STEEVES:
                                                              18
19
        A. Yes.
                                                               19
                                                                      Q. How often did they inspect your station?
       Q. And is that Chevron's logo in the upper right
20
                                                               20
                                                                         MR. DAVIS: Objection. Hold on one second.
21
    corner?
                                                              21
                                                                         THE WITNESS: Most of the time I never knew
22
       A. Yes.
                                                              22 that you could come and fill up a gas tank and go to
       Q. Did Chevron ever provide you any training for
23
                                                                  the bathroom, they asked for the key, and then they
24
    operating the station?
                                                                  checked everywhere, and then suddenly I used to get a
25
           MR. DAVIS: Objection, lacks foundation,
                                                                  letter that they were there.
                                                    Page 39
                                                                                                                  Page 41
```

Page 65 BY MR. STEEVES: 2 Q. Did Chevron ever give you any warnings regarding environmental contamination from gasoline 3 containing MTBE? MR. DAVIS: Same objections. 6 THE WITNESS: I don't remember. I don't 7 remember getting anything, whatever it contains, the gas, or anything like that. I know that there's two 9 kinds of gas, and that's all I know. 10 BY MR. STEEVES: Τì Q. Did Chevron ever give you any material safety 12 data sheets for their gasoline? 13 MR. DAVIS: Objection, lacks foundation. 14 THE WITNESS: Yes, they send me safety 15 instructions; like if you spill on the floor, what you 16 have to do, what -- who you have to call, but I never 17 had a problem, so I didn't have to. 18 BY MR. STEEVES: 19 Q. Do you still have that document? 20 I don't think so. 21 If I was a person that was continuing the 22 business, even though if I sold the place without -had a place, another place that I was continuing, I 23 24 would have kept all those paperwork, but I got out, completely out of it, so I didn't want to keep anything

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Deposition of Garabed Bedirlan / April 4, 2011

	· <del></del> · <u></u> · · · · · · · · · · · · · · · · · ·	
1	anymore.	F
2	Q. Do you recall what protocol was described in	
3	the material safety data sheets for gasoline spills,	
4	for cleaning up gasoline spills?	
5	A. All I remember, there was a number to call in	
6	case that happened. That's all I remember, but I don't	
7	remember anything else.	
8	Q. Did you ever have to call that number	
9	regarding the gasoline spill?	
10	A. No, no. No, I never needed I'm very	
11	clean. When it comes I'm very disciplined and very	
12	clean in the business.	
13	Q. You testified that your gasoline was	
14	delivered by truck.	
15	Do you recall ever seeing gasoline spilled	
16	when the underground storage tanks were filled?	
17	A. No. No, it never happened that way. In the	
18	past there were some trucks, the old trucks, and they	
19	had only one pipe, and they told me that it used to	
20	leak, but when they came to me, they had the new	
21	trucks, and they had the double piping, and we never	
22	had any accident, no. No, nothing like that happened	
23	to us.	
24	Q. Do you recall ever seeing any drips or spills	
25	when customers filled up their gas or their cars	

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Page 84
 1
                     CERTIFICATE OF REPORTER
 2
     STATE OF NEVADA
                            SS:
     COUNTY OF CLARK
 3
          I, Peggy S. Elias, a Certified Court Reporter
 4
     licensed by the State of Nevada, do hereby certify:
 5
 6
     That I reported the deposition of GARABED BEDIRIAN, on
 7
     Monday, April 4, 2011, at 9:41 a.m.
 8
          That prior to being deposed, the witness was
     duly sworn by me to testify to the truth.
 9
10
     thereafter transcribed my said stenographic notes via
     computer-aided transcription into written form, and
11
12
     that the typewritten transcript is a complete, true and
     accurate transcription of my said stenographic notes.
13
     That review of the transcript was requested.
14
          I further certify that I am not a relative,
15
16
     employee or independent contractor of counsel or of any
17
     of the parties involved in the proceeding; nor a person
     financially interested in the proceeding; nor do I have
18
19
     any other relationship that may reasonably cause my
20
     impartiality to be questioned.
21
          IN WITNESS WHEREOF, I have set my hand in my
     office in the County of Clark, State of Nevada, this
22
23
     17th day of April, 2011.
24
                      PEGGY S. ELIAS, RPR, CCR NO.
25
```

# Deposition of James Clements / March 29, 2011

1 2	UNITED STATES DISTRICT COURT SOUTHERN DISTRICT OF NEW YORK -000-	Page 1
3	·	
5	In re: Methyl Tertiary Butyl Ether ("MTBE") Products Liability Litigation Master File No.	
6	1:00-1898 This Document Relates To:	÷
8	Case No. City of Fresno MDL 1358(SAS) V. Chevron U.S.A. Inc., et al., Case No. 04 Civ. 4973	
9		
11	DEPOSITION OF JAMES CLEMENTS	
12	March 29, 2011 at 9:00 (10:03) a.m.	
13	Before: ERIC L. JOHNSON RPR, CSR #9771	
14	Taken at:	
15	Fresno, California	
16		
17		
18	<b>\</b>	
19		
20		
21		
22		
23		
24		
25		PERMIT MATERIAL

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Page 27

Page 25 think the 1,000 gallon tank was the premium tank and that was the one closest to the office. Q. Okay. So you think the tank identified as Tank 1 on this precision test would be the tank south of the store on --A. That is correct. 7 Q. Okay. Under brand supplier, it says Chevron. 8 Do you recall if Chevron supplied the gas for 9 this station? 10 A. You have to -- no, I didn't buy any gasoline 11 from Chevron when I owned the station. My dad did from 12 1926 -- or 1928, I should say, until 1986, he dealt 13 directly with Chevron. When my dad passed away, within 14 a couple of days after his death Chevron cancelled the 15 contract with me, with the station, per se, and I had to go to R.V. Jensen & Company, which is a jobber, a local 16 17 distributor here in town, and they handled Chevron 18 products. So I didn't buy anything direct from Chevron. 19 It was through R.V. Jensen & Company here in town. They 20 were a jobber or a distributor or whatever you want to 21 call it. 22 Q. And you said R.V. Jensen & Company used Chevron 23 products? 24 A. They were --

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MR. DAVIS: Objection. One second. Objection;

Deposition of James Clements / March 29, 2011

25

6

7 R

12

21

22

25

A. Terry Kraft.

Q. Do you know where Mr. Kraft is today?

A. I have no idea. I haven't seen him since '91.

Q. Do you recall how gasoline was delivered to

5

your site by R.V. Jensen?

A. In a truck. Tanker truck.

Q. Do you know where that gas was picked up from

before it was delivered to you?

A. I assume out of their facility, which was south

10 of town there. They had a -- R.V. Jensen was a

11 distributor for Chevron, and they had a plant out south

of town. I assumed that's where they got it, because it

13 was always in an R.V. Jensen truck, so I --

14 Q. You stated that you sold the station in 1991;

15 is that correct?

16 A. Yes.

17 Q. Do you recall the approximate date?

A. I wish I could tell you, but I don't want to be 18

quoted as to the approximate -- 1991. I don't remember 19

20 the month.

Q. Do you recall who you sold the station to?

A. A fellow by the name of Garabed Bedirian.

MR. STEEVES: I will hand you what's been 23

24 marked as Exhibit 6.

1111

Deposition of James Clements / March 29, 2011

overbroad, vague as to time period and location. 2 THE WITNESS: What? 3 MR. DAVIS: I said -- you can read my objections back if you want to. (Record read) 6 MR. STREVES: Q. I think the question pending is you just stated that R.V. Jensen & Company used Chevron products. Correct? A. They were a Chevron distributor and I bought 9 from them. Q. Do you recall the contact person with R.V. 11 12 Jensen? 13 A. No. There were a couple out there, I don't 14 remember who they were. 15 Q. Do you know if R.V. Jensen & Company used any 16 other suppliers? 17 A. No, sir, I don't. Q. Do you recall the date that your contract --19 your father's contract with Chevron was cancelled? 20 A. No. Q. You said it was sometime in 1986; is that 22 correct? 23 A. Yeah, it was in 1986. Q. Who is responsible for -- who at the station 25 was responsible for ordering gasoline?

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I can do it from over here. I'd just like to mark next in order, this is Exhibit No. 7. (Deposition Exhibit 7 marked for identification) 5 FURTHER EXAMINATION BY MR. DAVIS MR. DAVIS: Unfortunately, for the record, I --.7, for the record, we have got a Bates labeling error here. I do not believe these are going to be the correct Bates numbers for the case, but in any event, this is the copy that I have, so I will just refer to this as Exhibit 10 11 No. 7. This is a Chevron dealer supply contract dated August 15th, 1985. Q. Mr. Clements, if you will look at the last 13 page --14 15 A. Okay. 16 Q. -- it appears to me that your father -- is that 17 J.R. Clements on the last page -- G.R.? 18 Q. G.R. I am sorry. G.R. Clements? 19 A. That is correct. Q. And is that his signature? 21 A. Yes, sir. 22 Q. Do you know if you have ever seen this document 23 before? 24 A. I have never seen it. This is the first time I 25 have seen this. I have never ever seen it.

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Deposition of James Clements / March 29, 2011

Page 46 Q. So when Chevron -- I believe earlier you 2 testified that Chevron cancelled their supply contract with your father around the time --A. No, with me. Q. With you. Would this be the contract you think 5 they cancelled? A. Had to be, if this is all you have. Q. You never saw this before? A. No, sir. 10 Q. If you look at eight pages in, I think it is marked page eight at the -- in the bottom, in the center 12 of the page. There is a section called Unleaded 13 Gasoline. A. On eight you say, sir? 15 Q. Yes. 16 A. What are we looking for now? Q. There is a section that's titled Unleaded Gasoline, paragraph 12A. 18 19 A. Okay. Right. Q. Could you take a moment to read that --21 22 Q. -- paragraph for me? 23 A. Do you want me to read it? 24 Q. You can read it to yourself. It begins with 25 "The motor fuels covered by this contract include

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#### Deposition of James Clements / March 29, 2011

unleaded gasoline. 2 A. Okay. 3 Q. Just let me know when you have finished reading 5 A. Okay. 6 Q. I have shown you this document hoping that it will refresh your recollection of that time period. 8 Does this remind you that as early as 1985. Chevron was providing warnings about the need to handle 10 gasoline with care? 11 MR. STEEVES: Objection; lack of foundation, 12 calls for speculation. 13 THE WITNESS: Well, this would indicate they 14 are, but I never had any -- if you are asking me, I never had any direct contact with anybody from Chevron 15 16 regarding this. 17 MR. DAVIS: Q. Based on conversations you had with your father, did you ever find out from him that it 18 was important to Chevron that gasoline was handled with 19 20 care? 21 A. No, sir. Q. You just knew that from your -- from being in 22 business with your father? 23 24 A. That's right. 25 Q. You don't know what the source of -- you

Deposit	tion of James Clements / March 29, 2011	
		~
1	understood for the entire time you operated the station	Page 48
2	that you needed to handle with care gasoline with	
3	care?	
4	A. Yes.	
5	Q. You don't know one way or the other if Chevron	
6	was the source of where you learned that information?	
7	A. Correct.	
8	Q. Is that your father's signature on the last	
9	page?	
10	A. Yes, it is.	
11	Q. Based on what you have seen here, is it your	
12	understanding that Chevron did then inform your father	
13	of the importance of handling gasoline with care?	
14	MR. STREVES: Objection; lack of foundation,	
15	calls for speculation.	
16	THE WITNESS: I would suggest, based upon this	
17	contract, if he read it he was certainly apprised of the	-
18	situation.	
19	MR. DAVIS: Was it your father's policy	
20	objection strike that. I will pass the witness.	
21	MR. STEEVES: I have nothing else.	
22	MR. DAVIS: No further questions.	
23	MR. STEEVES: Anybody on the phone?	
24	MR. ORLACCHIO: None for me.	
25	MS. WINTTERLE: No questions.	i

# Deposition of James Clements / March 29, 2011

```
Page 51
 1
      STATE OF CALIFORNIA
                                    ss.
 2
      COUNTY OF STANISLAUS
 3
            I, ERIC L. JOHNSON, do hereby certify that I am a
     licensed Certified Shorthand Reporter, duly qualified
 4
 5
     and certified as such by the State of California;
 6
            That prior to being examined, the witness named in
 7
     the foregoing deposition was by me duly sworn to testify
     to tell the truth, the whole truth, and nothing but the
 8
 9
     truth;
10
            That the said deposition was by me recorded
     stenographically at the time and place herein mentioned;
11
     and the foregoing pages constitute a full, true,
12
13
     complete and correct record of the testimony given by
     the said witness;
14
15
           That I am a disinterested person, not being in any
16
     way interested in the outcome of said action, or
17
     connected with, nor related to any of the parties in
18
     said action, or to their respective counsel, in any
19
     manner whatsoever.
20
21
           DATED:
                   April 18, 2011
22
23
                                 Eric L. Johnson, CSR, RPR
24
25
```

# EXHIBIT 3

Dealer Employer Identification No. (EIN) 558-12-5333

S.S. No. C019-1328

# CHEVRON DEALER SUPPLY CONTRACT (Owner Dealer)

Dated: August 15, 1985

#### PREMISES AND TERM

1. Chevron U.S.A. Inc. ("Company") agrees to sell to G. R. Clements ("Dealer") and Dealer agrees to purchase from Company such quantities of the Chevron brand gasolines ---- ("Chevron motor fuels") sold by Company generally to service stations in Dealer's locality as are necessary to serve customer demand for Chevron motor fuels at Dealer's premises at 2740 Van Ness Blvd., Fresno, CA 93704 (the "premises") for a term commencing on the 1st day of January, 1986, and ending on the 31st day of December, 1988.

#### USE OF PREMISES

- 2. (a) Dealer acknowledges that there is a demand for Chevron motor fuels and Chevron brand motor oils (hereinafter sometimes collectively referred to as "Chevron products") at the premises, which is enhanced by Company's advertising and other promotions thereof, and agrees continuously to stock at the premises and to offer for sale such quantities of Chevron products as are necessary to serve customer demand therefor. Dealer acknowledges the financial benefit to Dealer of selling and prominently displaying Chevron products due to the high regard of the motoring public for service stations selling under the Chevron trademarks and trade names, and Dealer agrees at all times to give the dispensing equipment, displays and advertisements for Chevron products and brands as prominent and convenient positions as those for any other product offered for sale on the premises and not to disparage or diminish in any way by act or omission the good reputation of such trademarks, trade names, products or service stations.
- (b) Dealer agrees to devote sufficient time to the personal management of the premises so as to provide for the continued proper operation thereof as a service station, to maintain and operate the premises in a clean, safe and healthful manner with an appearance that is inviting to the motoring public, to render professional driveway and automotive service to customers by providing trained, acceptably groomed and uniformed service station personnel in numbers adequate to handle available business, to operate and manage the premises and cause customers to be treated in such a manner as to eliminate customer complaints to the extent possible, to comply with all applicable Federal, state and local laws and regulations relevant to the use and operation of the premises or the resale of all products purchased by Dealer under this Contract, and to supply Company with all information which Company shall reasonably request to enable Company to comply with all applicable Federal, state and local laws and regulations. Company and its authorized representatives shall have the right at any time to enter upon the premises to confirm the performance by Dealer's obligations under this Contract.



#### DELIVERIES-PRICES-TAXES

- 3. (a) Deliveries shall be made (except at Company's option) in full bulk transport quantities and on reasonable notice (preferably at least forty-eight (48) hours) at the premises in Company's customary manner using equipment selected by Company.
- (b) The prices Dealer shall pay Company for Chevron motor fuels hereunder shall be Company's prices to Dealer in effect at the time and place of delivery for the particular product, grade, quantity and type of delivery involved, as established by Company from time to time. Dealer shall, except at Company's option, pay Company net cash at the time of delivery for Chevron motor fuels and any other resale merchandise which Dealer may purchase from Company.
- (c) Any tax, duty, toll, fee, impost, charge or other exaction, or the amount equivalent thereto, and any increase thereof now or hereafter imposed, levied or assessed by any governmental authority upon, measured by, incident to or as a result of the transactions herein provided for (other than local, state and Federal net income taxes measured by the net income of Company from all sources), or the transportation, importation, production, manufacture, use or ownership of the goods the subject of this Contract shall, if collectible or payable by Company, be paid by Dealer on demand by Company. Any such payment shall be in addition to the prices otherwise herein provided for.

# TRADEMARKS, TRADE NAMES AND COLOR SCHEMES

- 4. (a) The products purchased by Dealer under this Contract shall be sold by Dealer as the products of Company and only under the trademarks and trade names authorized for such products by Company. Dealer shall not at any time offer for sale under such trademarks and trade names any product not authorized by Company to be sold thereunder. Dealer shall conduct Dealer's business so as to eliminate any likelihood of confusion between Company's products and those of others and so as to eliminate any likelihood of substitution or commingling of the products of others as or with those of Company. Dealer agrees to abide by such reasonable regulations to this end as Company may from time to time establish by written notice to Dealer. Without limitation on the foregoing, Company shall have the right at any time to take samples of Chevron motor fuels from the premises for testing purposes, compensating Dealer (at Dealer's cost, which for this purpose shall be based on Company's prices to Dealer hereunder in effect at the time the product is taken, or, at Company's option, in kind) for any products so taken.
- Dealer recognizes Company's right to use and authorize others to use all trademarks, service marks, trade names, color schemes and service station designs (collectively "insignia") utilized by Company to identify products and services, and Dealer agrees not to claim any right, title or interest therein. Dealer acknowledges the need to control Dealer's use of such insignia in order to maintain the validity thereof and to assure the continued recognition of, acceptance by and high regard of the motoring public for products and services identified by such insignia. Accordingly, Dealer agrees that Dealer shall use such insignia only in such manner as may be approved by Company and that Company may from time to time change such insignia and its promotional materials as it sees fit. Dealer shall not use any such insignia in Dealer's corporate name if Dealer is a corporation, nor permit the use of any such insignia in the name of any corporation in which Dealer has an interest. All signs advertising Company's products and all signs in the colors used by Company to identify its products or the places at which its products are sold and all rights therein are and shall continue to be the property of Company. Dealer shall not use any such signs except in connection with products manufactured or handled by Company and only in such manner as may be approved by Company. Company may, during the term of this Contract, and within a reasonable period thereafter, remove or obliterate such signs, and repaint so much of the premises as it elects, in a color or colors selected by it. If Company removes or obliterates any signs or repaints any of the premises, Company need not restore any pre-existing signs on or paint schemes of the premises.

Dealer may not use other signs to advertise products purchased from Company without Company's prior written consent. No other signs (except motor fuel price signs) shall be placed on a sign pole containing a sign advertising a product manufactured or handled by Company. Dealer shall not, during the term of this Contract or thereafter, simulate in any way any insignia identifying Company's products or the places or outlets where they are sold or marketed. Upon termination of this Contract, Dealer shall immediately return to Company all signs supplied to Dealer by Company and shall immediately discontinue any and all use of such insignia and shall obliterate such insignia from all real or personal property utilized by Dealer. Dealer likewise shall obliterate such insignia from any real or personal property of Dealer before selling any such property to a third party.

(c) Company shall have the right at any time during the term of this Contract to change, alter or amend any of the trademarks and trade names under which the motor fuels covered by this Contract are now or may hereafter be sold. If Company shall at any time during the term of this Contract discontinue the marketing in Dealer's locality of any or all of the motor fuels covered by this Contract, Company shall be relieved of all obligation to sell or deliver such discontinued product to Dealer and, if Company shall market any other product in lieu of the discontinued product, this Contract shall embrace the new product and all of the terms and conditions hereof previously applicable to the discontinued product shall apply to the new product.

# CONDUCT OF DEALER'S BUSINESS

- 5. (a) Dealer is engaged in an independent business and nothing herein contained shall be construed as granting to Company any right to control Dealer's business or operations or the manner in which the same shall be conducted, Dealer's obligation to Company hereunder being the performance of the terms and conditions of this Contract. Company has no right to hire or fire any employees of Dealer or to exercise any control over any of Dealer's employees, all of whom are entirely under the control and direction of Dealer, who shall be responsible for their acts and omissions. Dealer accepts exclusive liability for all contributions and payroll taxes required under Federal Social Security laws and State Unemployment Compensation laws or other payments under any laws of similar character as to all persons employed by or working for Dealer.
- (b) Dealer shall indemnify, defend and hold harmless Company, Company's parent company, Chevron Corporation, the subsidiary and affiliated companies of each of them (collectively "Company and its affiliates"), and their respective directors, officers, agents and employees, from and against all expense (including attorneys' fees), liability and claims of whatsoever kind and nature, including but not limited to those for damage to property (including Dealer's property) or injury to or death of persons (including Dealer), directly or indirectly resulting, or alleged to result, from anything occurring from any cause on or about or in connection with the maintenance, upkeep, repair, replacement, operation or use of the premises, or anything located thereon.

# PREVENTION OF PERFORMANCE -- SHORTAGE OF SUPPLY

6. (a) There shall be no obligation to sell or deliver or to receive or use the petroleum products covered by this Contract when and while, and to the extent that, the receiving or using or manufacture or making deliveries in the customary manner are prevented or hindered by act of God, fire, riot, labor disturbances (whether involving employees of the party affected or of others and regardless of whether the disturbance could be settled by acceding to the demands of a labor group), accident, war or the acts of any government (whether foreign or domestic, Federal, state, county or municipal) or any causes beyond the reasonable control of the party affected, whether or not similar to any of the foregoing causes. In cases of partial or total interruption or loss or shortage of transportation facilities or supplies, or shortage of products deliverable hereunder, Company may allocate deliveries of available products among Dealer, Company's other customers, contract or

otherwise, including Company's affiliates, and Company for its own use, on any basis which in Company's sole judgment is fair and reasonable, allowing for such priorities as Company deems appropriate.

- (b) Due to uncertainties in the supply/demand situation (which may include a decision by Company that the costs of some crude oil and petroleum products which might be available are unreasonable), Company may not have sufficient supplies of one or more of the petroleum products covered by this Contract to meet the full requirements of Dealer, of Company's other customers, contract or otherwise, including Company's affiliates, and of Company for its own use. Whenever that situation exists and Company's performance hereunder is not otherwise excused, Company may allocate deliveries of available products on any basis which in Company's sole judgment is fair and reasonable, allowing for such priorities as Company deems appropriate.
- (c) Allocation is fair and reasonable even if it is based on a shortage in the then contemplated sources of supply or a general shortage in Company's system or on historical or planned deliveries. "Company's system" means the supply system of Company and its affiliates.

#### TERMINATION

- 7. (a) Dealer may terminate this Contract without cause at any time during the term hereof upon giving Company written notice of such termination.
- (b) Company may, in addition to such other remedies as Company may have (including but not limited to the right to terminate this Contract as otherwise provided herein) and subject to any valid requirements of any applicable statute, terminate this Contract upon giving Dealer ninety (90) days' prior written notice of such termination or, if it would not be reasonable for Company to give ninety (90) days' prior written notice, at Company's election upon giving Dealer prior written notice for such lesser period as is reasonable in the circumstances, if any one of the following occurs:
  - (1) Dealer by act or omission breaches or defaults on any covenant, condition or other provision of this Contract, which breach or default can be cured, and Dealer fails to cure such breach or default within ten (10) days after such written notice of termination from Company which shall specify such breach or default; or
  - (2) Dealer by act or omission breaches or defaults on any covenant, condition or other provision of this Contract which breach or default cannot be cured, or in the event of any breach or default by Dealer after notice of two previous breaches or defaults of any kind has been given hereunder, regardless of Dealer's curing such previous breaches or defaults; or
  - (3) Dealer fails to exert good faith efforts to carry out the provisions of this Contract following written notice to Dealer from Company of such failure and a reasonable opportunity to exert good faith efforts to carry out such provisions; or
  - (4) Dealer fails to pay to Company in a timely manner when due all sums to which Company is legally entitled (whether or not such sums are owed to Company under this Contract); or
  - (5) Dealer knowingly fails to comply with Pederal, state or local laws or regulations relevant to the use or operation of the premises; or
  - (6) Willful adulteration, commingling, mislabeling or misbranding of motor fuels or other violations by Dealer of trademarks utilized by Company; or

- (7) This Contract, or any interest therein, is assigned or otherwise transferred contrary to the provisions of section 9 hereof; or
  - (8) Dealer vacates, abandons, transfers or is deprived of possession of the premises; or
- (9) Unlawful, fraudulent or deceptive acts or practices or criminal misconduct by Dealer relevant to the operation of the premises; or
- (10) Continuing severe physical or mental disability of Dealer of three (3) months' duration which renders Dealer unable to provide for the continued proper operation of the premises as a service station; or
- (11) Failure by Dealer to operate the premises as a service station for seven (7) consecutive days, or such lesser period which under the facts and circumstances constitutes an unreasonable period of time; or
  - (12). Conviction of Dealer of any felony involving moral turpitude: or
  - (13) Dealer's death.

Without limitation on the foregoing, it is agreed that upon the occurrence of any of the events specified in clauses (6) through (13) of this subsection (b) it would not be reasonable for Company to give ninety (90) days' prior written notice, that ten (10) days' notice would be reasonable in such circumstances, and that in any such circumstance Company may elect to terminate this Contract upon giving Dealer ten (10) instead of ninety (90) days' prior written notice of such termination.

- (c) If during the term hereof Company decides to withdraw from marketing motor fuels through retail outlets in the relevant geographic market area in which the premises are located, Company may terminate this Contract by giving Dealer one hundred eighty (180) days' prior written notice of such termination and otherwise complying with any applicable requirements of law, including the Federal Petroleum Marketing Practices Act.
- (d) Waiver by Company of one or more breaches or defaults hereunder shall not be deemed to be a waiver of any other or continuing breach or default hereunder. No modification of this Contract, and no waiver of any provision hereof, shall be binding on Company unless in writing and signed by Company. Termination of this Contract shall not relieve Dealer of responsibility for obligations incurred prior to termination. Upon termination of this Contract, subject to any valid requirements of any applicable statute, neither Company nor any incoming Dealer shall have any obligation to purchase from Dealer any of Dealer's inventory, tools, equipment or supplies.
- (e) If Company continues to accept orders from Dealer for motor fuels following expiration of the term of this Contract, such sales shall be upon all of the terms and conditions hereof; provided that such sales shall not be construed to evidence a renewal of this Contract by operation of law or otherwise, but shall imply only an agreement from day to day, which Company may (subject to any valid requirements of any applicable statute) terminate without cause at any time upon giving Dealer written notice of such termination.

#### **FACILITIES**

8. Company has delivered to or installed for (or shall deliver to or install for) Dealer the following facilities to be used by Dealer at the premises:

Monthly Rent

				HI OTT GET Y TECT
Chevron I.D. Signs:	ofType	@	\$ /mo.	\$ -0-
Chevron I.D. Signs:	of Type	@	\$ /mo.	\$
Pump Block Lighter Boxes:	No. of	@	\$ /ma.	\$ -0-
		TOTAL MONT	HLYRENT	S -0-

Dealer shall pay Company, in advance, each month for use of such facilities the total monthly rent specified above. In connection with the use by Dealer of such facilities, Dealer agrees to be responsible for loss of or damage to such facilities and agrees not to remove any of such facilities from the premises. Title to such facilities and all trademark and service mark rights Company may have in the same shall at all times remain in Company, and Company shall have the right at any time to remove any or all of such facilities on notice to Dealer thereof, refunding to Dealer any unearned, prepaid rental.

#### ASSIGNMENT

9. This Contract is personal to Dealer, and Dealer shall not, subject to any valid requirements of any applicable statute: assign this Contract, or any interest therein (either voluntarily or by operation of law) by assignment or other arrangements having similar effect; or become associated with any other person, directly or indirectly, as a partner or otherwise in regard to Dealer's interest or operations under this Contract.

#### INSURANCE

- 10. (a) Dealer shall maintain, at Dealer's own expense during the term hereof, insurance with respect to Dealer's business, the premises and all activities on or about or in connection with the premises of the types and in the minimum amounts described generally as follows:
  - (1) Garage Liability Insurance or Comprehensive General Liability Insurance (bodily injury and property damage) of not less than \$500,000 combined single limit per occurrence, including explosion hazard, personal injury, premises-operations, products and completed operations, blanket contractual and independent contractors liability coverages; and
  - (2) Business Auto Liability Insurance (bodily injury and property damage) of not less than \$500,000 combined single limit per occurrence on all nonowned automobiles, all tow trucks and service vehicles which are owned, hired or leased by Dealer, and all vehicles bearing the hallmark or other insignia used by Company, which are owned, hired or leased by Dealer; and
  - (3) Environmental Impairment Liability Insurance (bodily injury and property damage) of not less than \$500,000 combined single limit of liability, including gradual seepage, pollution and cleanup costs; and

- (4) Full Worker's Compensation and Employer's Liability Insurance covering all employees of Dealer; and
- (5) Any other insurance or surety bonding that may be required by applicable Federal, state and local laws and regulations; and
- (6) Excess liability insurance of not less than \$1,000,000 per occurrence in excess of the insurance required under clauses (1), (2), (4) (except Worker's Compensation) and (5) above, affording not less than the same coverage and including personal injury and property damage coverage.
- (b) The insurance required under clauses (1), (2), (3), (5) and (6) of subsection (a) above shall include Company and its affiliates as additional insureds except with regard to occurrences that are the result of their sole negligence.
- (c) The insurance required under clauses (1), (2), (3), (5) and (6) of subsection (a) above shall provide that it is primary coverage with respect to Dealer, Company and all other additional insureds.
- (d) The insurance required above shall provide that no cancellation or material change in any policy shall become effective except upon thirty (30) days' prior written notice to Company.
- (e) The insurance companies shall have no recourse against Company, or any other additional insured, for payment of any premiums or assessments under any policy issued by a mutual insurance company.
- (f) Dealer shall furnish certificates satisfactory to Company as evidence that the insurance required under subsection (a) above is being maintained.
- (g) Dealer shall be responsible for all deductibles in all of Dealer's insurance policies.
- (h) Dealer's indemnity and other obligations shall not be limited by the foregoing insurance requirements.

# CORPORATE DEALER--OPERATOR

- 11. (a) The personal qualifications of each Company dealer are of material significance to Company, other retail service stations displaying Company's insignia, and the motoring public. When Company accommodates an individual's desire to do business in corporate form by entering into this Contract with the corporation, this is done with the understanding that, although it is only the corporate Dealer that enjoys rights under this Contract, those rights are conditioned on the individual remaining actively involved with and responsible for the operation of the service station and retaining control of the corporation. Accordingly, if Dealer is a corporation and subject to any valid requirements of any applicable statute, Dealer agrees that the references to "Dealer" in clauses (9), (10), (12) and (13) of subsection 7(b) hereof are amended hereby to read "Dealer or any Operator" and that Dealer's rights under this Contract are subject to the following conditions being met throughout the term of this Contract, which Dealer shall cause the following named individual N/A ("Operator") to meet:
  - (1) Operator shall perform Dealer's obligations under subsection 2(b) hereof to devote sufficient time to the personal management of the premises so as to provide for the continued proper operation thereof as a service station; and

- (2) Operator shall own all right, title and interest, legal and beneficial, in and to a majority of the voting stock and any other stock of Dealer (as well as a majority thereof after giving effect to the conversion of all securities convertible into stock of Dealer and taking into account the issuance of any additional stock or securities convertible into stock) and Operator shall not pledge or otherwise hypothecate any such stock or securities, or permit or suffer any lien or encumbrance to be placed thereon, or grant proxies or enter into stockholder or other agreements which limit in any manner Operator's control of Dealer, or otherwise create, permit or suffer legal, beneficial or other rights or interests to exist in others with regard to any such stock or securities; and
- (3) Operator shall guarantee the performance of all of Dealer's obligations under this Contract.
- (b) The occurrence of any event, whether voluntary, involuntary, direct or indirect, by operation of law, by merger or other corporate proceedings or otherwise caused, which results in Operator having less than a majority of the voting and other stock of Dealer as required by clause (2) of subsection (a) above or any action otherwise in breach of clause (2) of subsection (a) above shall be construed as an assignment of this Contract for the purposes of section 9 hereof.

#### UNLEADED GASOLINES

- (a) The motor fuels covered by this Contract include unleaded gasolines, which products are subject to Federal air pollution laws and regulations on fuels and fuel additives. Those regulations impose directly on Dealer and Company specific legal obligations regarding the quality control, distribution, sale and dispensing of unleaded gasolines. Accordingly, Company has established certain programs and procedures for the handling of unleaded gesolines. Dealer recognizes the importance to Company and to Dealer of Dealer meeting fully all governmental requirements covering unleaded gasolines. Dealer agrees to comply with Company's programs and procedures for handling unleaded gasolines in their present or future form and promptly to contact Company if Dealer has any indication whatsoever that contamination of unleaded gasolines may occur or may have occurred in order that Company may, at its option, conduct a test of such product. Company's representatives shall have the right at any time to enter upon the premises where unleaded gasolines purchased hereunder are stored by or for Dealer and to take such quantities of unleaded gasolines as they deem necessary to check the quality of such products, compensating Dealer (at Dealer's cost, which for this purpose shall be based on Company's prices to Dealer hereunder in effect at the time the product is taken, or, at Company's option, in kind) for any products so taken. Dealer shall comply fully with all applicable Federal, state and local laws and regulations pertaining to unleaded gasolines, including but not limited to specific compliance with the regulatory provisions which:
  - (1) Prohibit the sale, dispensing or offering for sale of gasoline represented to be unleaded gasoline unless it meets the requirements for unleaded gasoline defined in the Federal regulations; and
  - (2) Prohibit introduction, or causing or allowing introduction of leaded gasoline into any motor vehicle which is labeled "unleaded gasoline only," or which is equipped with a gasoline tank filler inlet which is designed only for the introduction of unleaded gasoline; and
  - (3) Require that all gasoline pumps, from which leaded gasoline is introduced into motor vehicles, be equipped with a nozzle spout having a terminal end with an outside diameter of not less than 0.930 inches (2.363 centimeters); and

- (4) Require that all gasoline pumps, from which unleaded gasoline is introduced into motor vehicles, be equipped with a nozzle spout which meets the following specifications: (i) the outside diameter of the terminal end shall not be greater than 0.840 inches (2.134 centimeters); (ii) the terminal end shall have a straight section of at least 2.5 inches (6.34 centimeters) in length; (iii) the retaining spring shall terminate 3.0 inches (7.6 centimeters) from the terminal end; and
- (5) Require that the following notice be displayed in the immediate area of each pump island:

"Federal Law Prohibits the Introduction of Any Gasoline Containing Lead or Phosphorus Into Any Motor Vehicle Labeled 'UNLEADED GASOLINE ONLY'"; and

- (6) Require that unleaded gasoline pumps have affixed a label stating: "Unleaded Gasoline"; and
- (7) Require that leaded gasoline pumps have affixed a label stating: "Contains lead anti-knock compounds."
- (b) Dealer shall comply fully with all documents, manuals and other written communications pertaining to unleaded gasolines, which Company has distributed or may distribute at any time in the future to Dealer.
- (c) Dealer's indemnity obligation under subsection 5(b) of this Contract shall include, but not be limited to, any and all expense (including attorneys' fees), liability, claims, fines, civil penalties or demands which may arise or be assessed as a result of any act or omission of Dealer or Dealer's agents or employees in handling unleaded gasolines hereunder, or as a result of failure by any of them to follow Company's programs and procedures for handling unleaded gasolines.
- (d) If Dealer fails to comply with the requirements regarding unleaded gasolines as hereinabove set forth, then Company, in addition to such other remedies as Company may have, shall have the right to terminate delivery of unleaded gasolines to Dealer or to suspend such delivery until Company is satisfied that Dealer is again in compliance therewith.

#### PRIOR SUPPLY CONTRACTS

13. This Contract shall not become effective if, prior to the commencement of the term hereof, Company notifies Dealer of Company's election to exercise any right Company may have to terminate any prior supply contract with Dealer covering the delivery of motor fuels to the premises. In such event this Contract shall be null and void. Subject to the foregoing, effective as of the commencement of the term hereof, this Contract supersedes and terminates all prior supply contracts between Company and its affiliates and Dealer covering the delivery of motor fuels to the premises, provided that any outstanding breach by Dealer of any such prior supply contract shall be deemed to be a breach of this Contract and the occurrence of any event authorizing the termination of any such prior supply contract shall authorize the termination of this Contract.

# NOTICE

14. All notices to be given under this Contract shall be in writing and shall be posted by certified mail or personally delivered to Company at 2 Annabel Lane, Suite 200, San Ramon, CA 94583 and to Dealer at the premises or such other address as either party may designate by written notice to the other in the manner herein provided.

	CHEVRON U.S.A. INC.
•	By Faliane
	G. R. Clements
The undersigned Operator here e provisions of section 11 of this Contract a	eby agrees that Operator shall perform and comply nd hereby guarantees to Company the performance o
Dealer's obligations under this Contract.	

MS-9266(7-85)

Memorandum

San Francisco, CA December 30, 1986

#### MTBE

#### MR. R. L. ARSCOTT:

Chevron USA Downstream has used MTBE in gasoline for a number of years. Future use as an octane enhancer is likely to increase; and government actions may stimulate additional use to reduce CO emissions from motor vehicles and/or to reduce the aromatics in gasoline. We are currently evaluating the economics of building an MTBE plant.

Recently, we have learned of concerns about potential adverse health and environmental effects of MTBE. For example, the attachments indicate that:

- The U.S. Interagency Testing Committee has recommended chronic inhalation toxicity testing with monitoring of concentrations at terminals and service stations, and
- The Maine Department of Environmental Protection has recommended either banning MTBE or imposing special storage requirements to protect groundwater.

Marketing has also heard of some concern in Europe that may spill over to the U.S.

We would appreciate your assessment of available information concerning health and environmental effects of MTBE and of the potential for additional government limitations on the use of MTBE in gasoline.

D. B. SMITH

BB:jsc

cc: Mr. C. L. Blackwell Mr. O. T. Buffalow Mr. D. W. Callahan Mr. R. D. Cavalli Mr. H. S. Quillicy Mr. E. E. Spitler Mr. R. W. Yose

bee: JPG Maj XBK WHL DAB Original Signed by Dizinal Signed by M.A. LAVINSKY

CH 009137

## Alcohol Week CHENCON CURBONA

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An exchange report of all fighol fuels and feedstocks

### MAINE CALLS FOR DROPPING MISE: CHES IF AS GROUNDWATER CONTAMINANT

A report detailing the hazards of methyl tertiary butyl eiber (MTBE) as a groundwater contaminant has just been released by the Mains Dept. of Environmental Protection. According to the report, MTBE is not highly toxic but does spread through an equifer more rapidly than other gasoline components, thereby requiring the residual rapoline while contaminating drinking well beyond the radius under gasoline would normally reach. The report concludes that MTBE should either be banned from addition to gasoline or at least mored to extra-pecture containers.

6.1876. Toltiene at 0.0376 and sylene at 0.11276. Since benzene, toltiene and sylene are more soluble in others than in water they, along with the larger hydrocarbon molecules of gasoline, tend to linger and concentrate while the MTBE ranker into fresh water supplies, the report says.

Although blaine has set a maximum contaminant level for MTBE at 50 parts per billion (appl), concentrations of 690 ppb were discovered in a drinking well near a gasoline/MTBE blend spill. At that site, reserved as page 77

the concentration of other e-roller components was only 10 ppb. The well nearest the spiti had concentrations of up to 126,000 ppb gasoline plus MTRE, the report states. At another site, total concentrations exceeded 600,000 ppb in contrast to usual maximum concentrations for gasoline components near spitis of only 10-20,000 ppb. The point is that MTRE not only leads other hydrocarbons through the squifer but, as it spreads away, concentrate the retaining hydrocarbons, one of the authors said.

"Greundwater contaminated with MTSE is difficult to remediate," the report states. Carbon filtration is not contessant for MTSE lines 2 cm it bed used to reat household water only lam a month or less at MTSE concentration of sa low as 10 pph. "The report states that MTSE, new one of the up 50 chemicals produced in the U.S., is a very

The report states that MTSE, now one of the top 50 chemicals produced in the U.S., is a very popular expenses in ilsu of tetra-sthyl less. Some 10 plants now produce MTSE; Texas Petrochemicals and ARCO are the largest producers. An additional 20 plants are planned, the report states. Of the U.S. 60,000 bearets day MTSE produced by ARCO is

the 1960s when the company paramed a process for renoving branches elefins like isobutylene from bydrocarbons streams, the report states. The isobutylene is then combined with medianol. MTBE was not commercially produced until 1979 and production has increased by about 40% each year since 1980, the report states, it is currently used in about 10% of the U.S. gasoline supply but the proportion of gasolines biended with MTBE is expected to increase dramatically in coming years. Although the U.S. Environmental Protection Agency allows biending up to 11%, it is usually added at between 2% and 7% and mostly in unleaded premium gasolines.

Claims made about MTBE set that it has an octane blending value greater than that of toluene, reformant or allegant; is compatible with all types of automobile ensterials; does not phase-separate as alcoholt do; and that he are in gasotice reduces carbon monoxide and hydrocarbon emissions in most cars, the report states?

Not only done METRY greater solubility and lower ability to stick with soil and biological particles mean that its plants around a leak in greater than that of other pasoline components, but it also acts so a cosolvest for the gasoline components, thereby dragging them along behind, the report says. "The result is that the sum total of all dissolved gasoline components in groundwater is increased."

Although MTRR is not perticularly toxic and is not careinogenic, it has a "turpene-like" or "chemical" odor, "Our livit contamination case, in 1964, was initially mistaken for one of hazardous waste feachate because of the unusual mull," it states. The odor can be detected at water concentrations as low as 20-50 ppb, the report states, Years after a spill, most of the plume will be only MTRE as the other gasoline components are blodegraded.

The report gives foor reasons for concests over the taxisity of MTSE and its presence in domentic well water: it is very mobile in groundwater so that its concentration in a well may very radically from week to week; plumes of MTSE in groundwater are associated with plumes of gasoline with its more varied and tonic components; MTSE is an irritant; and MTSE is probably a nervous system depressant like other others, and beneave, toluene and arising.

MIBE is not the only villain when it comes to gazdine spills, however, the source said. The report offers three approaches regarding the MIBE problem, some of which would indirectly indict offer gazdine additives including ethanni and mathemat. Figury, the report states that there is reason enough to call for the abandonment of MIBE as an additive in gazdine stored underground. Similarly, other normne enhancers including ethanni, methanni, and tertiary butyl sicohol may be equally soluble and have similar environmental effects to MIBE. Secondly, if MIBE use must continue, it by itself and when blended in gazdine should be stored only in double-contained facilities.

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CH009138

## EXHIBIT 4

HEHORANDUM

San Francisco, CA August 12, 1991

TIP Latter # 237 HTBE Effects

#### REGIONAL HANAGERS:

As you all know Methyl-tertiary-butyl-ether (MTBE) is widely used in gasoline throughout our distribution network. The oxygenated fuel requirements in the recent reauthorization of the federal Clean Air Act will only increase the use of MTBE and its concentration in our gasolines. In light of this, we thought it prudent to pass on some facts concerning the potential effects, both environmental and budgetary, of a spill or leak of gasoline containing MTBE into the groundwater. This information may help you to prioritize sites due for UST upgrades (ie. spill containment, release detection, etc.).

Typically, benzene is the component that determines the extent of a dissolved hydrocarbon plume and is the component with the most stringent cleanup standards. While benzene concentrations in the groundwater are the driving force for most cleanups, benzene is relatively easy to remove by carbon adsorption or air stripping and it will naturally biodegrade in most subsurface environments.

MTBE on the other hand is a different situation. The solubility of benzene in water is 1,800 parts per million (ppm), while the solubility of MTBE in water is 43,000 ppm! The dissolved plume that results from a leak into groundwater is directly related to the solubility in water of the chemical. The higher the solubility the larger the plume and the faster it will migrate.

When MTBE gets into the water then the trouble really starts. Removal of a compound by air stripping is governed by the Henry's Law constant; the constant for MTBE is 1/7 that of benzene; the biodegredation of MTBE is 1/5 that of benzene; the carbon adsorption of MTBE is 1/5 that of benzene. MTBE has two additional characteristics that only exacerbate the problem. Dissolved benzene transport in water is retarded due to adsorption; MTBE transport is not significantly slowed since it does not adsorb to soil as well. Water containing over 1,500 ppm of MTBE is flammable and can lead to explosive vapors. Attached you will find a summary of MTBE properties provided by R.J. Hinds of CRTC.

MFIDENTIAL: This document is subject to the Diember 21, 1999 Stipulated Protective Order entered San Francisco Superior Court, Case No. 999128.

CHEV 09564

As you can see, a groundwater cleanup where MTBE is present has the potential to be 2-3 times as expensive as our present groundwater cleanups. The resulting plume will be much larger and the removal of MTBE is very difficult at best.

Our highest degree of concern right now is with service stations without spill containment manholes that are, or will be, served by racks that are blending MTBE. The combination of MTBE gasoline being delivered, the lack of spill containment manholes, and shallow groundwater could be tremendously expensive for us in the long run. As they say, an cunce of prevention is worth a pound of cure, and in this case prevention is certainly prudent.

J.L.KOERBER

FK.K

DJL/

cc. A.M. Caccamo
D.N. Perkins
J.L. Pease
R.J. Finds
Compliance Specialists
TIP Coordinators
Env. Engineering Supervisors
H.W. Russ

MFIDENTIAL: This document is subject to the plember 21, 1999 Stipulated Protective Order entered the San Francisco Superior Court, Case No. 999128.

CHEV 09565

Material Safety Data Sheet MATERIAL SAFETY DATA SHEET

CHEYRON CHEVRON

CHEVRON UNLEADED GASOLINE HANDE

THIS HATERIAL SAFETY DATA SHEET CONTAINS ENVIRONMENTAL, HEALTH AND TOXICOLOGY INFORMATION FOR YOUR EMPLOYEES. PLEASE MAKE SURE THIS INFORMATION IS GIVEN TO THEM. IT ALSO CONTAINS INFORMATION TO HELP YOU HEET COMMUNITY RIGHT-TO-KNOW/ENERGENCY RESPONSE REPORTING REQUIREMENTS UNDER SARA TITLE TIL AND MANY OTHER LAWS. IF YOU RESELL THIS PRODUCT, THIS MEDS MUST BE GIVEN TO THE BUYER OR THE INFORMATION INCORPORATED, IN YOUR MEDS. DISCARD ANY PREVIOUS EDITION OF THIS MEDS.

MSDS DISCONTINUED. THIS MATERIAL SAFETY DATA SHEET HILL HO LONGER Maria Nasaga e BE OPDATED. SEE MSDS #2855.

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

COMPANY IDENTIFICATION

EMERGENCY TELEPHONE HUNDERS

CHEVRON USA PROBUCTS COMPANY ENVIRONMENTAL, SAFETY, AND HEALTH (800) 424-9300 OR (202)483-7616 575 HARKET ST SAN FRONCISCO, CA 94185-2856

CHEHTREC (24 HR)

PRODUCT INFORMATION: (808)822-5823 NSDS REQUESTS (518)242-5357 TECHNICAL

REVISION HUHBER: 2 REVISION DATE: 62/83/83 HSDS NUMBER: 884276 HDA - NO DATA AVAILARIE NA - NOT APPLICABLE

PREPARED ACCORDING TO THE OSHA HEZARD COMMUNICATION STANDARD (28 CFR 1918, 1288) BY THE CHEVRON ENVIRONMENTAL

HEALTH CENTER: INC., P.O. BOX 4854, RICHNOND, CA. 94884. CHEVRON UNLEADED GASOLINE HANTSE

PAGE 2 OF:1

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

SPECIAL NOTES: ETHYL ALCOHOL IS ONLY ADDED IN LIMITED SPECIFIC DISTRIBUTION AREAS.

COMPOSITION COMMENT:

COMPOSITION COMPONENTS OF THIS NATERIAL ARE ON THE TOXIC SUBSTANCES CONTROL ACT CHEMICAL SUBSTANCES INVENTORY.

THE PROPORTION COMPOSITIONS ARE GIVEN TO ALLOW FOR THE VARIOUS RANGES OF THE COMPONENTS PRESENT IN THE MHOLE PRODUCT AND MAY NOT EQUAL 188%.

. Containing ..

COMPONENTS AMOUNT LIMIT/QTY AGENCY/TYPE GAGOLING (GENERIC) 188.8% SEEPPH ACGIN TRA 558PPH ACGIN STEL SEEPPH OSHA TWA 588PPH OSHA STEL

INCLUDING:

BENZEHE

CHENICAL NAME: BENZENE

25 PPH OSHA CEILING CERCLA 882.4 RQ

REFER TO THE OSHA BENZEME STANDARD (29 CFR 1918 1828) FOR DETAILED TRAINING, EXPOSURE KONTTORING, RESPIRATORY PROTECTION AND MEDICAL SURVEILLANCE REQUIREMENTS BEFORE USING THIS PRODUCT.

ETHYL BEHZENE

CHEMICAL NAME: ETHYLBENZEHE

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TLV - THRESHOLD LINIT VALUE TWA - TIME WEIGHTED AVERAGE STEL - SHORT-TERM EXPOSURE LINIT TPO - THRESHOLD PLANNING QUANTITY CPS - CUSA PRODUCT CODE

CC - CHEVRON CHEMICAL COMPANY - CAS - CHEMICAL ABSTRACT SERVICE NUMBER

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MARIANGERAL DE LE COMMISSION DE LA COMMISSION DE LA CAMBRICA DE LA

- Harmful or Fatal if Subliqued Can enter lunes and couse banage Yapor Harmful
- LONG-TERM EXPOSURE TO VAPOR HAS CRUSED CANCER IN LABORATORY ANTHALS MAY CRUSE EYE AND SKIN IRRITATION

  - EXTREMELY FLAHMABLE

# 一 REEP OUT OF REACH DF CHILDREN

#### POTENTIAL HEALTH EFFECTS.

THIS SUBSTANCE IS SLIGHTLY IRRITATING TO THE EYES AND COULD CAUSE PROLONGED (DAYS) THPAIRMENT OF YOUR VISION THE DEGREE OF THE INTURY WILL BEFEND ON THE SHOUNT OF MATERIAL THAT GETS INTO THE EVE AND THE SPEED AND THOROUGHHEES OF THE FIRST AID TREATHENT, SIGHS AND SYMPTOMS HAY INCLUDE PGIN, TEARS, SHELLING, REDHESS, AND DLURRED VISION, EVE CONTACT HITH THE VAPORS, FUHES, OR SPROV MIST FROM THIS SUBSTANCE COULD BLEG CAUSE SIMILAR SI GHS AND SYMPTOMS.

skih îrritation 🦠

PROLONGED OR FREQUENTLY REPEATED CONTACT HAY CAUSE THE SKIN TO SECONE CRACKED OR DRY FROM THE DEFATTING ACTION OF THIS HATERIAL. DERHAL TOXICITY

IF ABSORBED THROUGH THE SKIN THIS SUBSTANCE IS CONSIDERED PRACTICALLY HON-TOXIC TO INTERNAL ORGANS.

RESPIRATORY/INHALATION

THIS SUBSTANCE IS SLIGHTLY TOXIC TO INTERNAL DEGANS IF THERLED. THE DEGREE OF THIURY HILL DEPEND ON THE ALREADENE CONCENTRATION AND DURATION OF EXPOSURE. THE TARGET ORGANCS) IS THE NERVOUS SYSTEMS INHALATION OF GREOLINE VAPOR AT AIRBORNE CONCENTRATIONS EXCEEDING 1888 PPH MAY CAUSE SI GHS AND SYMPTOMS OF CENTRAL NERVOUS SYSTEM EFFECTS SUCH AS HEADACHE. DIZZINESS LOSS OF APPETITET MERKHESS AND LOSS OF COORDINATION .. VAPOR

CONCENTRATIONS IN EXCESS OF 5888 PPM MAY CAUSE LOSS OF CONSCIOUSHESS, COMA. AND PEATH. PRIEF EXPOSURES TO HIGH VAPOR CONCENTRATIONS MAY ALSO CAUSE PULKONARY EDENA AND BRONCHITIS. INTENTIONAL EXPOSURES TO EXCESSIVELY HIGH CONCENTRATIONS (E.G., MACH USED AS A DRUG OF ABUSE) HAVE BEEN REPORTED TO RESULT IN CLINICAL MANIFESTATIONS THAT MAY INCLUDE CONVULSIONS, DELIRIUM, AND HALLUCINATIONS. THESE MANIFESTATIONS ARE NOT KNOWN TO OCCUR FOLLOWING ACCIDENTAL INHALATION OF GASOLINE VAPOR DURING NORMAL OPERATIONS. Incestion:

THIS SUBSTANCE IS SLIGHTLY TOXIC TO INTERNAL ORGANS IF SHALLONED. THE DEGREE OF INJURY WILL DEPEND ON THE AMOUNT ASSORBED FROM THE GUT. THE TARGET ORGAN(S) IS THE MERVOUS SYSTEM. SIGHS AND SYMPTOMS OF CENTRAL MERVOUS SYSTEM EFFECTS MAY INCLUDE ONE OR HORE OF THE FOLLOWING: HEADACHE, DIZZINESS, LOSS OF APPETITE, WEARNESS AND LOSS OF COORDINATION.

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CHEVRON UNLEADED GASOLINE NATRE

BECAUSE OF THE LOW VISCOSITY OF THIS SUBSTANCE, IT CAN DIRECTLY ENTER THE LUNGS IF IT IS SWALLOHED (THIS IS CALLED ASPIRATION). THIS CAN OCCUR-DURING THE ACT OF SHALLOHING OR WHEN VOHITING THE SUBSTANCE. ONCE IN THE LUNGS, THE SUBSTANCE IS VERY DIFFICULT TO REMOVE AND CAN CAUSE SEVERE INJURY TO THE LUNGS BUD DEATH.

FYE CONTACT! EVE CONTACT: HOLDING THE EVELIDS OPEN REMOVE CONTACT LENSES IF HORN, NO ADDITIONAL FIRST SID SHOULD BE HECESSARY. HOMEVER, IF IRRITATION PERSISTS, SEE A DOCTOR: N

SKIN CONTACT:

NO FIRST AID PROCEDURES ARE REQUIRED. AS A PRECAUTION CONTACTOR OF THE PROPERTY OF THE PROPERT

IF RESPIRATORY INHITATION OR ANY SIGNS OF SYMPTOMS AS DESCRIBED IN THIS BOCUMENT OCCUR. MOVE THE PERSON TO FRESH SIR. IF ANY OF THESE EFFECTS INGESTION

IF SHOLLOWED, GIVE HOTER OR HILK TO DRINK AND TELEPHONE FOR HEDICAL AT SHELLUMED. ELVE MATER OR MILK TO DRINK AND TELEPHONE FOR HEDICAL ADVICE. DO NOT MAKE PERSON VOMIT UNLESS DIRECTED TO DO SO BY MEDICAL PERSONNEL. IF HEDICAL ADVICE CANNOT BE OBTAINED, THEN TAKE THE PERSON AND PRODUCT CONTAINER TO THE MERREST MEDICAL EMERGENCY TREATHENT CENTER OR MOSPITAL. HOTE TO PHYSICIAN INVESTIGN OF THIS PRODUCT OR SUBSEQUENT VOMITING CAN RESULT IN ASPIRATION OF LIGHT HYDROCARBON LIQUID WHICH CAN CAUSE PHEUHONITIS

### 5. FIRE FIGHTING MEASURES the state of the s

AUTOIGHITION: NDA FLAMMABILITY LIMITS (% BY VOLUME IN AIR); LOHER; 1.4 UPPER: 7.8 EXTINGUISHING MEDIA:

FIRE FIGHTING FORM: ALCOHOL RESISTANT TOPE (AR) AFFF, COZ. DRY CHEMICAL.

FIRE FIGHTING PROCEDURES:

THIS PRODUCT PRESENTS AN EXTREME FIRE HAZARD. LIQUID YERY QUICKLY EVAPORATES, EVEN AT LOW TEMPERATURES, AND FORKS VAPOR (FUHES) WHICH CAN CATCH FIRE AND BURN WITH EXPLOSIVE VIOLENCE, INVISIBLE VAPOR SPREADS EASILY AND CAN BE SET OR FIRE BY HANY SOURCES SUCH AS PILOT LIGHTS. WELDING EQUIPMENT, AND ELECTRICAL MOTORS AND SHITCHES.

FOR FIRES INVOLVING THIS MATERIAL; DO NOT ENTER ANY ENCLOSED OR CONFINED FIRE SPACE HITHOUT PROPER PROTECTIVE EQUIPMENT. THIS HAY INCLUDE SELF-CONTAINED BREATHING APPARATUS TO PROTECT AGAINST THE HAZARDOUS EFFECTS OF HORHAL PRODUCTS OF COMBUSTION OR OXYGEN DEFICIENCY. READ THE

EFFECTS OF HORMAL PRODUCTS OF COMBUSILON OF COMBUSILON OF HORMAL PRODUCTS:

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CHEVRON UNLEADED GASOLINE WATER NATE: 02/09/83 HSDS HUMBER: 084276

HORMSL COMBUSTION FORMS CARBON DIOXIDE AND MATER VAPOR: INCOMPLETE COMBUSTION CAN PRODUCE CARRON MONDXIDE.

NEPS RATINGS: HEALTH 1: FLAMMABILITY 3: RESCRIVITY 0: SPECIAL MDS:
LEGST-0. SLIGHT-1. MODERATE-2. HIGH-3: EXTREME-4). THESE VALUES ARE OBTAINED USING THE GUIDELINES OR PUBLISHED EVOLUATIONS PREPARED BY THE HATIONAL FIRE PROTECTION ASSOCIATION (HFPA) OR THE HATIONAL PAINT AND CONTING ASSOCIATION.

### 6 WEEDWARD CONCERNS ... SPILL PERPONSE PROPRIETORS

CHEMTREC EMPRENCY NUMBER (24 HR): (888)424-8308 OR (282)483-7616 SHOWER PRESIDENCES OF IGNITION IN VICINITY OF SPILL OF RELEASED VAPOR.

White the second CHET THE THE THE IS CONSTDERED TO MEET THE PROPERTY OF STREET THE PROPERTY OF STREET TO STREET THE PROPERTY OF STREET TO STREET THE PROPERTY OF STREET THE PROPE

WATTOWN, RESPONSE CENTER IS (888) 424-8882.

DISPOSAL METHODS CLEAN UP SNALL SPILLS USING APPROPRIQTE TECHNIQUES SUCH AS SORBENT NATERIALS OR PUMPING. WHERE FEASIBLE AND APPROPRIATE REMOVE CONTAMINATED SOIL. FOLLOW PRESCRIBED PROCEDURES FOR REPORTING AND RESPONDING TO LARGER DISPOSE OF IM A HAUNER CONSISTENT WITH APPLICABLE REGULATIONS. CONTACT LOCAL ENVIRONMENTAL OR MEALTH AUTHORITIES FOR APPROVED DISPOSAL OF THIS MATERIAL.

### 7. STORAGE, HONDLING. AND REACTIVITY

HAZARDOUS DECOMPOSITION PRODUCTS: HAZARDOUS DECOMPOSITION PRODUCTS:

STABLE.

STHEALLITE STABLE: HAZBRIOUS POLYHERIZATION:

POLYMERIZATION RILL NOT OCCUR.
INCOMPATIBILITY:
MAY REACT WITH STRONG OXIDIZING AGENTS: SUCH AS CHLORATES, HIT RATES, PEROXIDES, ETC. SPECIAL PRECAUTIONS:

HEVER SIPHON GASOLINE BY MOUTH. READ AND OBSERVE ALL PRECAUTIONS ON PRODUCT LABEL. USE ONLY AS A HOTOR FUEL. DO NOT USE FOR CLEANING, PRESSURE APPLIANCE FUEL. OR ANY OTHER SUCH USE. DO NOT USE OR STORE NEAR FLAHE! SPARKS OR NOT SURFACES: USE ONLY IN HELL VENTILATED AREA: KEEP. CONTAINER CLOSED BO NOT TRANSFER LIQUID TO AN UNLABELED CONTAINER. DO

CONTRINER CLOSED DO NOT TRANSFER LIQUID TO AN UNLABELED CONTAINER. DO
REVISION NUMBER: 2 REVISION DATE: 82/83/93 HSDS NUMBER: 88/276
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HOT WELD, HEAT OR DEXIL CONTAINER. REPLACE CAP OR BUNG. EMPTIED CONTAINER
STILL CONTAINS HAZARDOUS OR EXPLOSIVE VAPOR 03 LIQUID.

#### B. PROTECTIVE EQUIPMENT

EVE PROTECTION: DO HOT GET THIS MATERIAL IN YOUR EYES. EYE CONTACT CAN BE AVOIDED BY MEGRING CHENICAL GOGGLES. SKIN PROTECTION: HO SPECIAL SEIN PROTECTION IS USUALLY NECESSARY. AVOID PROLONGED OR PREQUENTLY REPEATED SKIH CONTACT WITH THIS HATERIAL SKIN CONTACT CAN AS MINIMIZED BY MEARING PROTECTIVE CLOTHING. RESPIRATORY PROTECTION ! HO SPECIAL RESPIRATORY PROTECTION IS HORMALLY REQUIRED. HOMEVER, IF OPERATING CONDITIONS CREATE GIRBORNE CONCENTRATIONS WHICH EXCEED THE RECONNENDED EXPOSURE STONDARDS, THE USE OF AN APPROVED RESPIRATOR IS REQUIRED REFER TO THE OSHA BENZENE STANDARD TO DETERMINE WHAT TYPE OF RESPIRATOR IS REQUIRED BASED ON EXPOSURE LEVELS. VEHTILATION: DES THIS MATERIAL OHLY IN WELL VENTILATED AREAS.

<sup>9.</sup> PHYSICAL AND CHEMICAL PROPERTIES

SPPEARANCE: . ORANGE TO BRONZE LIQUID. OBOR: PHYSICAL STATE: HĎ9 HIM vapor pressure: 5 - 15 PSI VAPOR DEMSITY 3-4 (AIRail); BOILING POINT: 25 - 225C (VARIABLE) FREEZING POINT HDA SOLUBILITY: NA. SPECIFIC GENVITY: 8.7 - 8.8 DEHSITY: HDA EYAPORATION RATE: NDA : .:

### 18. TOXICOLOGICAL INFORMATION

EVE IRRITATION

THE DRAIZE EVE IRRITATION SCORE (RANGE, 8-118) IN RABBITS IS 8 SKIM IRRITATION:
THE DRAIZE SKIH PRIMARY IRRITATION SCORE (RANGE, 8-8) FOR A 4-HOUR

EXPOSURE (REBRITE) IS 8.88. THIS MATERIAL MAS NOT A SKIN SENSITIZER IN REVISION HUMBER: 2 REVISION DATE: 82/83/93 MSDS MUMBER: 884276 NDA - HO DATA AVAILABLE NA - NOT APPLICABLE PAGE CHEVRON UNLEADED GASOLINE AFHTRE

THE MODIFIED DUEHLER GUINER PIG SENSITIZATION TEST. Derkal Toxicity (1986)

THE DERNAL LUSE IN RABBITS IS > 5 HL/KG.

RESPIRATORY/THRALATION:

HO PRODUCT TOXICOLOGY DATA AVAILABLE.

IMPERTION:

THE ORAL LOSS IN BATS IS > 5 ML/16.

additional Toxicology Datas

LIFETTHE INHALATION OF HHOLE GASOLINE VAPOR HAS CAUSED INCREASED LIVER TUMORS IN FEMALE HICE THE MECHANISH OF THIS RESPONSE IS STILL BEING INVESTIGATED BUT IT IS THOUGHT TO BE AN EPIGENETIC PROCESS UNLOW TO THE FEMALE HOUSE SINHALBTION EXPOSURE TO WHOLE GASOLINE VAPOR ALSO CAUSED KI DHEY DAMAGE GNO EVENTUALLY KIDHEY CANCER IN MALE RATS HO OTHER ANIMAL MODEL STUDIED HAS SHOUN THESE ODVERSE KIDNEY EFFECTS AND THERE IS NO PHYSIOLOGICAL REASON TO BELIEVE THAT THEY HOULD OCCUR IN HAN.

THE DATH ABOVE IS OBTAINED FROM STUDIES SPONSORED BY THE AMERICAN PETROLEUM INSTITUTE (API)

TERMSFORT INFORMATION

THE DESCRIPTION SHOWN HAY NOT APPLY TO ALL SHIPPING SITUATIONS. CONSULT: 48CFR; OR APPROPRIATE DANGEROUS GOODS REGULATIONS, FOR ADDITIONAL DESCRIPTION REQUIREMENTS (E.G., TECHNICAL NAME) AND MODE-SPECIFIC OR QUANTITY-SPECIFIC SHIPPING REQUIREMENTS.

BOT SHIPPING HOME: HDA DOT HAZARD CLASS! HOR : DOT HAZARD CLASS! HOA DOT IDENTIFICATION NUMBER! NDA DOT PACKING GROUP: NDB

## 12. REGULATORY INFORMATION

SARA 311 CATEGORIES:

1. IMMEDIATE (ACUTE) HEALTH EFFECTS: YES

2. DELAYED (CHRONIC) HEALTH EFFECTS: YES

3. FIRE MOZARD:

4. SUDDEN RELEASE OF PRESSURE HAZARD: NO

5. REACTIVITY HAZARD:

81 \*\*SARA 313

81 \*\*ALT RTK

82 \*\*HASS RTK

82 \*\*HASS RTK

12 \*\*CERCLA 382.4

22 \*\*TSCA SECT 4(E)

83 \*\*HH RTK

84 \*\*SCA SECT 5(A)(E)(F)

84 \*\*CA PROP SS-CARCIN'

14 \*\*ACGIH THA

84 \*\*ISCA SECT 12(B)

85 \*\*CA PROP SS-REPRO TOX 15 \*\*ACEIH STEL

85 \*\*CA PROP SS-REPRO TOX 15 \*\*ACEIH STEL

87 \*\*ISCA SECT 12(B)

88 \*\*ISCA SECT 12(B)

89 \*\*ISCA SECT 12(B)

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REVISION DATE: 82/83/83
REPS NUMBER: 884278
CHEVRON UNLEADED GASOLINE N/HTBE
R9&SARA 382/384
19=CHEVRON TWA
20=EPA CARCINOGEN
RSPA RTK
20=EPA CARCINOGEN
RSPA CELLING
RSPA RTK
20=EPA CARCINOGEN

THE FOLLOWING COMPONENTS OF THIS MATERIAL ARE FOUND ON THE REGULATORY LISTS INDICATED.

ETHYLBEHZENE

IS FOUND ON LISTS: 84.82,18,11,12,13,14,15,17,18,28,28;

IS FOUND ON LISTS: 81,82,18,11,12,15,25,28. RYLEHE-M.

IS FOUND ON LISTS: 01,82,18,11,12,14,15,17,18,28,28, TOLUENE

IS FOUND ON LISTS: 84,82,84,18,11,12,18,14,15,17,18,26,28,28, HEXARE

IS FOUND ON LISTS: 82,18,11,19,14,15,17,28,

IS FOUND ON LISTS: 81,82,18,11,12,13,14,17,26,28,

EX 11 .11, 21, 24, 26,

ETHAL BICOHOL

IS FOUND ON LISTS! 62,19,11,13,14,17,28,

BENZEHE

IS FOUND ON LISTS! 81.82,83,84,86,19,11,12,13,14,17,18,28,28,28,

XYLEHE-0

IS FOUND ON LISTS: Hi, B2, 18, 11, 12, 14, 15, 17, 18, 26, 28,

GRS OLINE (GENERIC)

IS FOUND ON LISTS: 84,88,14,15,17,18,20,

13. ADDITIONAL HEALTH DATA

ADDITIONAL HEALTH DATA: COMMENT: 14. THIS PRODUCT CONTAINS BENZENE. THE OSHA BENZENE STANDARD (29 CFR 4848.1828) CONTRINS DETRILED REQUIREMENTS FOR TRAINING, EXPOSURE MONITORING, RESPIRATORY PROTECTION AND MEDICAL SURVEYLLANCE TRIGGERED BY THE EXPOSURE LEVEL REFER TO THE OSHA STANDARD REFORE USING THIS PRODUCT. REPEATED OR PROLONGED BREATHING OF BENZENE VAPORS HAS BEEN BESOCIATED WITH THE DEVELOPMENT OF CHROMOSOMAL DAMAGE IN EXPERIMENTAL ANIMALS AND VARIOUS BLOOD DISEASES IN HUMANS RANGING FROM APLASTIC AMENIA TO LEUKE HIR CA FORM OF CANCERY ALL OF THESE DISEASES CAN BE FATAL; NO BIRTH DEFECTS HAVE BEEN SHOWN TO OCCUR IN PREGNANT LABORATORY ANIMALS EXPOSED TO DOSES NOT TOXIC TO THE MOTHER, HOHEYER, SOME EVIDENCE OF FETAL TOXICITY SUCH 65 DELAYED PHYSICAL DEVELOPHENT HAS BEEN SEEN AT SUCH LEVELS. THE AVAILABLE INFORMATION ON THE EFFECTS OF BENZEME ON HUMAN PREGNANCIES IS INADEQUATE BUT IT HAS BEEN ESTABLISHED THAT BENZENE CON CROSS THE HUNAN PLACENTA.

THIS PRODUCT CONTAINS H-HEXANE. PROLONGED OR REPEATED SKIN CONTACT OR BREATHING OF VAPORS MAY CAUSE NERVE DAMAGE CHARACTERIZED BY PROGRESSIVE MERKNESS AND NUMBHESS IN THE ARMS AND LEGS. RECOVERY RANGES FROM HO RECOVERY TO COMPLETE RECOVERY DEPENDING UPON THE SEVERITY OF THE MERVE DAMAGE

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THIS PRODUCT CONTAINS TOLUENE. TOLUENE HAS HEEN REPORTED TO DECREASE INMUNOLOGICAL RESPONSES IN TEST ANIMALS. IT HAS ALSO DEEN REPORTED THAT WHEN YOUNG RATS WERE EXPOSED TO 1888 FFM TOLUCHE FOR 14 HOURS DAILY FOR THOU WEEKS IRREVERSIBLE HEARING LOSS WAS DETECTED THE SOME DAILY EXPOSURE TO 768 PPH FOR AS LONG AS LE NEEKS WAS WITHOUT EFFECT, SINCE THE LEVEL HECESSARY TO PRODUCE HEARING LOSS IS GREATER THAN 7 TIMES THE ACGIH TLY-THE FOR TOLUENE, MORKER EXPOSURES AT OR BELOW 180 FPM IS HOT EXPECTED TO CAUSE ANY SOLVERSE SPRECTS. THERE ORE ALSO REPORTS THAT CHRONIC SOLVENT COMCENTRATIONS (SEVERAL THOUSAND PRHY) OF TOLUGHE FOR PROLONGED PERIODS ( TO TEN HOURS DAYS HAVE SUFFERED LIVER, KIDNEY AND BRAIN DOWNGE, TOLURNE

HAY ALSO CAUSE MENTAL AND/OR GROWTH RETARDATION IN THE CHILDREN OF FEMALE. SOLVENT ABUSERS WHO DIRECTLY INHALE TOLUENE WHEN THEY ARE PREGNANT. TOLUENE CAUSED GROWTH RETARDATION IN RATS WHEN ADMINISTERED AT DOSES THAT . WERE TOXIC TO THE HOTHERS (1588 PPM). CONCENTRATIONS OF UP TO SERE PPH DID NOT CAUSE BIRTH DEFECTS. THERE HERE HO EFFECTS IN THE OFFSPRING OF DOSES THAT DID NOT INTOXICATE THE PREGNANT RATS. THE EXPOSURE LEVEL OF WHICH HO EFFECTS HERE SEEN (NO OBSERVED EFFECT LEVEL, HOEL) IS THE PPK. HE RECOMMEND THAT THE PRECAUTIONS OUTLINED IN THIS HODS BE FOLLOWED TO KEEP TOLUENE CONCENTRATIONS BELOW THE RECOMMENDED EXPOSURE STANDARDS. 

THIS PRODUCT CONTAINS XYLENE, A CHEMICAL THAT HAS BEEN REPORTED TO CAUSE DEVELOPHENTAL TOXICITY IN RATS AND HICE EXPOSED BY INHALATION DURING PREGNANCY: THE EFFECTS HOTED CONSISTED OF DELAYED DEVELOPMENT AND KINDR SKELETAL VARIATIONS; ADDITIONALLY, WHEN PREGNANT HICE MERE EXPOSED BY INGESTION TO A LEVEL THAT KILLED NEARLY ONE-THIRD OF THE TEST GROUP, LETHALITY (RESORPTIONS) AND MALFORMATIONS (PRIMARILY CLEFT PALATE) LETHHLITY (RESORPTIONS) AND MOLFORMSTIONS (PRINKLLY CLERT PHENTE)
OCCURRED. HALFORNSTIONS HAVE NOT BEEN REPORTED FOLLOWING INHALATION
EXPOSURE: BECAUSE OF THE VERY HIGH LEVELS OF EXPOSURE USED IN THESE
REPRODUCTIVE TOXICITY TO MORKERS EXPOSED TO XVLENE LEVELS AT OR BELON THE
EXPOSURE STANDARD.

XYLEHE HOS GIVEN REGATIVE RESULTS IN SEVERAL MUTAGEN TESTING ASSAYS
INCLUDING THE AMES ASSAY. IN A CANCER STUDY SPONSORED BY THE NATIONAL
TOXICOLOGY PROGRAM (HTP), TECHNICAL GRADE XYLENE GAVE NO EVIDENCE OF
CARCINOGENICITY IN RATE OR WICE DOSED DAILY FOR THO YEARS.

CARCHOGENICITY IN RATE OR KICE DOSED BAILY FOR THE VEARS,

THIS PRODUCT CAN CONTAIN KETHYL TERT BUTYL ETHER (HTBE), WOST

KUTAGENICITY DATA ON MIRE, EXCEPT FOR THE IN VITRO HOUSE LYMPHOMA TEST,

INDICATE THAT IT IS NOT MUTAGENIC. HTBE CAUSED BIRTH DEFECTS IN HICE

EXPOSED TO A RANG DRW THROUGHOUT RESEMBNOOD NO BIRTH DEFECTS OR HICE EXPOSED TO SIBBUTPH THROUGHOUT PREGNANCY. NO BIRTH DEFECTS WERE OBSERVED IN MICE STALL BEG PPH OF IN BATS OR RABBITS AT SNY DOSE OF MIRE. THESE RESULTS SUGGEST THAT THE RISK OF BIRTH DEFECTS IN HUMANS FROM HIRE IS HEGLIGIBLE AT THE ANTICIPATED EXPOSURE CONCENTRATIONS

WHOLE GASOLINE EXHAUST MAS REVIEWED BY THE INTERNATIONAL AGENCY FOR RESEARCH OH CANCER (TARC) IN THEIR MONOGRAPH VOLUME 46 (1989) EVIDENCE FOR CHUSING CANCER MGS CONSIDERED INADEQUATE IN GHIERLS AND INADEQUATE IN CHEGORY 287 CONSIDERING IT POSSIBLY CARCINOGENIC TO HUNGHS.

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CHEVROH UNLEADED GASOLINE W/HTBS NA - NOT APPLICABLE PAGE 11 OF 1

THE ABOVE INFORMATION IS BASED ON THE DATA OF WHICH WE ARE AWARE AND IS BELIEVED TO BE CORRECT AS OF THE DATE HEREOF, SINCE THIS INFORMATION MAG BE APPLIED UNDER CONDITIONS REVOND OUR CONTROL AND NITH HHICH HE HAV BE UNFORTLIAR AND SINCE DATA MADE AVAILABLE SUBSEQUENT TO THE DATE HEREOF MAY SUGGEST MODIFICATION OF THE INFORMATION, ME DO NOT ESSUAE ANY RESPONSIBIL-ITY FOR THE RESULTS OF ITS USE. THIS INFORMATION IS FURNISHED UPON COMDITION THAT THE FERSON RECEIVING IT SHALL MAKE HIS OWN DETERMINATION OF THE SUITABILITY OF THE MATERIAL FOR HIS PARTICULAR PURPOSE.

REVISION NUMBER: 2 REVISION DATE: 82/83/93 NSDS NUMBER: 804276 NDA - NO DATA AVAILABLE NA - NOT APPLICABLE

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